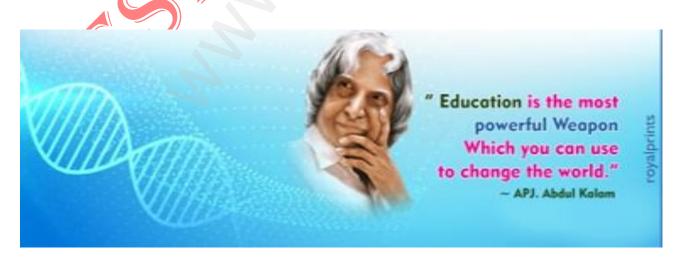


CHAPTER WISE ONE MARK TEST



BEST WAY(ZOOLOGY)

STD: XII REPRODUCTION IN ORGANISAMS

SUB: BIO - ZOOLOGY (Chapter – 1 : One mark Test)

- 1. Which one is the fundamental features of all living organisms?
 - a) Reproduction
- b) Growth
- c) Development
- d) Maturation

TIME: 45 Mins

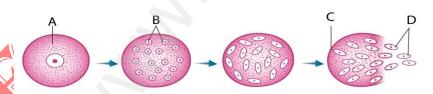
MARKS: 50

- 2. Which one is the correct statement about the reproduction
 - a) Birth growth development maturation reproduction death
 - b) Birth development growth reproduction maturation death
 - c) Birth development reproduction growth maturation death
 - d) Death birth development growth reproduction maturation
- 3. Asexual reproduction
 - (i) Single parent without the involvement of gamete formation
 - (ii) The off spring produced are genetically identical
 - (iii) It is usually by amitotic or mitotic division of the somatic (body) cells
 - (iv) Two parents participate in the reproductive process
 - (a) (i) (ii) and (iii)

(b) (i) (ii) and (iv)

(c) (ii) (iii) and (iv)

- (d) (i) (iii) and (iv)
- 4. **Assertion** (A): Reproduction enables the continuity of the species generation after generation
 - **Reason (R)**: Reproduction is a biological process in which an organism give rise to young ones similar to itself.
 - a) If both A and R are true and R is correct explanation for A
 - b) If both A and R are true but R is not the correct explanation for A
 - c) If A is true but R is false
 - d) If both A and R are false.
- 5. Given below is the diagrammatic sketch of multiple fission in plasmodium. Identify the labeled A, B, C and D select right option.



A	В	С	D
a) Merozoites	Repturing schizoint wall	Daughter nuclei	Schizont
b) Schizont	Daughter nuclei	Repturing schizoint wall	Merozoite
c) Merozoites	Daughter nuclei	Schizont	Repturing wall
d) Merozoites	Daughter nuclei	Repturingschzont wall	Schizont

- 6. Which type of reproduction contractile vacuoles cease to function and disappear?
 - a) Oblique binary fission

b) Longitudinal binary fission

c) Transverse binary fission

d) Simple binary fission

7. Match it:

(i) Simple binary fission	A - Ceratium		
(ii) Transverse binary fission	B - Flagellum		
(iii) Longitudinal binary fission	C - Paramecium		
(iv) Oblique binary fission	D - Amoeba		
(a) (iv) (iii) (ii) (i)	(b) (iv) (i) (ii) (iii)		
(c) (ii) (i) (iv) (iii)	(d) (iv) (ii) (i) (iii)		

- 8 Given following statements which one is True / False
 - (i) In multiple fission parent body divides into many similar daughter cells simultaneously
 - (ii) In multiple fission produce four or many daughter individuals by equal cell division and the going ones to not separate until the process is complete repeated fission
 - (iii) In plasmodium multiple fission occurs in schizont, the daughter individuals are called sporozoties
 - (iv) Plasmodium multiple fission occur inthe occyte, the daughter individual called merozoties

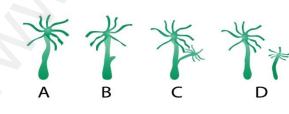
	(i)	(ii)	(iii)	(iv)
a)	True	True	False	False
b)	True	False	True	False
c)	False	False	True	True
d)	False	True	False	True

- In favourable conditions, the encysted amoeba divides by multiple fission and produces many minute amoeba is called as
- (a) Encasement (b) Pseudopodiospore (c) Cyst

 10. Which animal contains micronucleus and macronucleus?
 - a) Paramecium b) Planaria c) Euglena d) Amoeba
- 11. Exogenous budding seen in
 - (a) Noctiluca (b) Sponges (c) Hydra (d) Giant Amoeba

(d) Pseudopodia

12. Study of the following figures and select the correct statement regarding these.



- i) Budding in Hydra
- ii) Parent body produces one or more bunds and each bud grows into a young one
- iii) Buds separate from the parent to leads to normal life
- iv) In hydra Endgeneous budding.

a) (i) (ii) and (iii) b) (i) (ii) and (iv) c) (i) (iii) and (iv) d) (ii) (iii) and (iv)

13. Which one is correct pair?

(a) Endogenous budding	-	Noctiluca
(b) Exogenous budding	-	Sponges
(c) Sporulation	-	Opalin
(d) Budding	-	Pelomyxa

First regeneration regrowth studied in 14.

(a) 1740

(b) 1741

(c) 1840

1841

Which technique is used for the cultivation of sponges? 15.

a) Fragmentation b) Artificial parthenogenesis

c) Regeneration

d) Apolysis

Which animal contain proglottids? 16.

(a) Taenia solium

(b) Leucosolenia

(c) Opalina

(d) Pleomyxa

Which method is very significant since it helps in transferring the development 17. embryo's from host (Tape worm)?

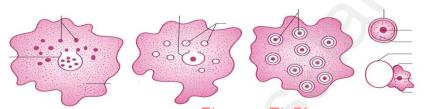
a) Plasmotomy

(b) Soprulation

(c) Apolysis

(d) Budding

Below the diagram about Amoeba which type of asexual reproduction seen in 18.



a) Gemmile formation

b) Strobilation

c) Sporulation

d) Regeneration

19. External tertilization seen in

(a) Fishes

(b) Ambhibians

(c) Reptiles

(d) Both (a) and (b)

Choose the correct combination of sexual reproduction, match the examples given 20. under column I with the given under column II

	COLUMNI	COLUMN II
	Autogamy	(i) Man
	Hologamy	(ii) Monocystis
C	Isogamy	(iii) Trichonympha
D	Anisogamy	(iv) Actinophaerium
		1 \ (1)

(iv) a) (ii) (iii) (i) (iv) b) (i) (ii) (iii) (iii) (i) d) (iv) (iii) (ii) (i)

(ii) (iv) Syngamy means

(a) Conjugation

(b) Fertilization

(c) Parthenogenesis

(d) Asexual reproduction

The male and female gametes are produced by the same cell or organism and both 22. gametes fuse together to form a zygote.

(a) Autogamy

(b) Exogamy

(c) Hologamy

(d) Paedogamy

Conjugation is observed in 23.

a) Paramecium

(b) Vorticella (c) Bacteria (Prokaryotes)

(d) All the above

24.	Assertion (A): Natural Parthenogenesis	
	Reason (R): Parthenogenesis occur regula	r constantly and naturally in their life
	cycle	
	(a) Both A and R are true	
	(b) Both A and R are true but R	is correct explanation of A
	(c) A is tuue but R is false	
	(d) A is false but R is true	
25.	Who was first discovered by parthenogenesi	
	(a) Abraham Trembley	(b) Charles Bonnet
	(c) Alfred Heshey	(d) Martha Chase
26.	The Organisms reproductive and their off sp	
	(a) Juvenile phase	(b) Reproductive phase
27	(c) Senescent phase	(d) Vegetative phase
27.	Given following statements which one is Tru	
		tes are produced by different parents and
	they fuse to form a zygote (ii) Paedogamy is the sexual union of your	ag individuals produced immediately
	(ii) Paedogamy is the sexual union of your after the division of the adult parent c	
	(iii) In merogamy the fusion of large sized	
	take place	ang morphologically different gametes
	(iv) Isogamy the without fusion of morphol	ogical and physiological identical
	gametes	ogical and physiological identical
	(a) True False	True False
	(b) False False	True False
		False False
	(d) True False	False False
28.	Match column I with column II and choose t	he correct option
	COLUMNI COLUM	N II
	A Arrhenotoky (i) Radia larv	va
	B Thelytoky (ii) Aphis	
	C Amphitoky (iii) Solenobia	
	D Paedogenesis (iv) Honey be	
	(a) $(A - iv)$ $(B - ii)$ $(C - i)$ $(D - iii)$	
	(c) $(A-iv)$ $(B-iii)$ $(C-ii)$ $(D-i)$	
29.	Which unfertilized egg (ovum) is induced to	develop into a complete individuals by
	physical or chemical stimuli?	
	(a) Complete Parthenogenesis	(b) Incomplete Parthenogenesis
20	(c) Nature Parthenogenesis	(d) Artificial Parthenogenesis
30.	The events in sexual reproduction are (i) Profestilisation (ii) Fartilisation	ion (iii) Doot fortilisation
	(i) Pre-fertilisation (ii) Fertilisat The sequential order of their occurrence is	tion (iii) Post-fertilisation
	a) (ii)-(i)-(iii)	b) (iii) – (ii) – (i)
	α <i>)</i> \11 <i>)</i> ⁻ \1 <i>)</i> ⁻ \111 <i>)</i>	σ_{j} ($m_{j} = (n_{j} = (n_{j} = n_{j})$

d) (i) –(iii)-(ii)

c) (i)-(ii)- (iii)

31.	Identify the animal that does no	t breed continuously.		
	a) Lizards b) Hen	c) Rabbit	d) Honey bee	
32	In which type of parthenogeness	is are only males produced?		
	a) Arrhenotoky b) Thelytoky	c) Amphitoky	d) Both (a) and (b)	
33.	The mode of reproduction in ba	cteria is by		
	a) Formation of gametes	b) Endospore fo	rmation	
	c) Conjugation	d) Zoospore for	mation	
34.	In which mode of reproduction	variations are seen		
	a) Asexual b) Parthenog	· · · · · · · · · · · · · · · · · · ·	d) Both (a) and (b)	
35			scept drones.	
	<u> </u>	duced by parthenogenesis.		
		are true and R is correct expla		
		are true but R is not the corre	ct explanation for A	
	c) If A is true but F			
	d) If both A and R			
36.	Assertion (A): Offspring's pro		on are genetically	
	identical to the		1 ' '	
	<u> </u>	duction involves only mitosis		
		are true and R is correct expla		
		are true but R is not the corre	ct explanation for A	
	c) If A is true but R			
37.	d) If both A and R Which form of reproduction is			
37.	(a) Euglena transverse binary fis		aitudinal hinary fission	
	(c) Amoeba multiple fission	(d) Plasmodium bir	-	
38.	Assertion (A): Viviparous anim			
50.		ggs in the safe places of the ϵ		
		are true and R is correct expla		
		are true but R is not the corre		
	c) If A is true but R		<u>r</u>	
	d) If both A and R			
39	A few statements with regard to		n below:	
	(i) Sexual reproduction does n			
	(ii) Sexual reproduction genera	ally involves gametic fusion		
	(iii) Meiosis never occurs durin	ng sexual reproduction		
	(iv) External fertilization is a rule during sexual reproduction			
7	Choose the correct statements fi	rom the options below:		
	a) (i) and (iv) b) (i) and (ii)	i) c) (ii) and (iii)	d) (i) and (iv)	
40.	"Nothing lives forever, but life	e continues". What does it me	an?	
	a) Older dies but new ones are p	· -		
	b) Nothing can produce without			
	c) Death has nothing to do with			
	d) Parthenogenesis is must for s	exual reproduction		

41	Seed formation without fertilization	on in f	lowering plants invol	ves the process of
	(a) Sporulation (b) Budding	(c) Somatic hybridizati	on (d) Apomixis
42.	Budding as a normal mode if asex	kual re	production is found ir	1
	(a) Hydra and sponges		(b) Starfis	h and hydra
	(c) Tapeworm and hydra		(d) Spong	es and starfishes
43.	Parthenogenesis is a term of			
	(a) Budding		(b) Asexu	al reproduction
	(c) Sexual reproduction		(d) Regen	eration
44	Which of the following states	nents,	support the view	that elaborate sexual
	reproductive process develops mu	ich lat	er in the organic evolu	ition?
	(i) Lower groups of organisms h		_	
	(ii) Asexual reproduction is com			
	(iii) Asexual reproduction is com	mon ir	higher groups of org	anisms
	(iv) The high incidence of sexual	reproc	luction is in angiosper	ms and vertebrates.
	a) (i), (ii) and (iii)		b) (i), (iii)	and (iv)
	c) (i), (ii), and (iv)		d) (ii), (iii) and (iv)
45.	In complete parthenogenesis			
	(i) In some animals both sexual	repro	duction and parthenog	enesis occur
	(ii) In honey bees fertilized eggs	devel	op into queen (female	
	(iii) Unfertilized egged develop i	nto dr	ones (male)	
	(iv) The larva produce a new gen	eratio	n of larva by partheno	genesis.
	(a) (i) (ii) and (iii) (b) (i) (iii) and	nd (iv)	(c) (ii) (iii) and (iv) (d) (i) (ii) and (iv)
46.	Which type of breeding found in	honey	bees?	
	a) Seasonal breeding			ve breeding
	c) Continuous breeding		d) Random bree	ding
47.	Seasonal breeders seen in		7	
	(a) Frogs (b) Liza		(c) Deers	(d) All of these
48.	How many phases of life cycle tal	ke plac		
4.0	(a) 1 (b) 2		(c) 3	(d) 4
49.	Match column I with column II an	nd cho		
	COLUMN I	(4)	COLUMN II	
	A External fertilization	(i)	Earth worm	
	B Internal fertilization	(ii)	Cockroach	
	C Bisexual	(iii)	Frogs and fishes	
	D Unisexual	(iv)	Birds and mammals	
	(a) $(A - iv)$ $(B - iii)$ $(C - iv)$	() —1)	(D-11)	
	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	() —11)	(D-1)	
	$\begin{array}{cccc} (c) & (A - iii) & (B - iv) & (C - $	-11)	(D-1)	
5 0		-1)	(D-11)	
50.	Conjugation is common among		(b) V ant: 11-	
	(a) Paramecium		(b) Vorticella	
	(c) Bacteria (Prokaryotes)	A T T 7	(d) All the above	
		\mathbf{ALL}'	THE BEST	

BEST WAY (ZOOLOGY)

HUMAN REPRODUCTION

SUB: BIO-ZOOLOGY (Chapter - 2 : One mark Test)

MARKS: 50 TIME : 45 Mins

- 1. What are the main function of reproductive system?
 - (i) To produce the gametes namely sperms and ova
 - (ii) To transport sustain these gametes
 - (iii) To nurtue the developing offspring
 - (iv) To maintain homeostasis for survival of the individual
 - a) (i) (ii) and (iii)

STD: XII

b) (i) (ii) and (iv)

c) (i) (iii) and (iv)

- d) (ii) (iii) and (iv)
- 2. Formation of gametes is called as
 - a) Spermatogenesis

b) Oogenesis

c) Gametogenesis

- d) Organogenesis
- Transfer of sperm by the male into the female genital track 3
 - a) Implantation
- b) Insemination
- c) Placentation
- d) Parturition
- Given below statement find out which one is True False 4.
 - (i) Cleavage rapid mitotic division of the zygote which convert the single zygote into the multicellular structure called blastocyst.
 - (ii) **Placentation** formation of placenta which is the intimate connection between foetus and uterine wall of the mother.
 - (iii) Gastrulation process by which blastocyst is changed into gastrula with two primary germ layers.
 - (iv) Organogenesis formation of specific tissues, organs and organs system from two germ layers.
 - (iii) (i) (ii) (iv)
 - True False False a) True
 - b) True False False True
 - False False True True c)
 - True d) False (True False
- What are primary reproductive organs of male and female? 5.
 - b) Ovary and Ova a) Testis and Ovary
- c) Parturition
- d) Fertilisation
- Match column I with column II, Select the correct option from the male 6. reproductive system

	COLUMN - I		COLUMN - II
Α	Sertoli cells	i)	Negative feedback
В	Spermatogonic cells	ii)	Nurse cells
C	Inhibin	iii)	Germ cells
D	Interstitial cells	iv)	Leyding cells

- a) A-(iv) B-(iii) C-(iv) D-(i) B-(iv) C-(iii) D-(i)
- b) A-(ii) B-(iii) C-(i) d) A-(iv) C-(iii)

B-(ii)

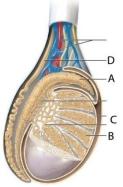
D-(iv) D-(i)

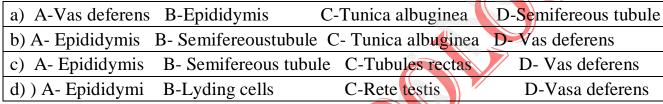
7. Temporarily stores the spermatozoa is

c) A-(ii)

- a) Rate testis b) Epididymis
- c) Vas deferens
- d) Vasa efferentis

8. The given diagram shows L.S of testis showing varies parts. Identify the parts and Labeled.





- 9. Arrange the accessory ducts associated with the male reproductive system
 - a) Vasa efferentia \rightarrow epididymis \rightarrow vas deferens \rightarrow rate testis
 - b) Vas deferens → epididymis → vasa efferentia → rate testis
 - c) Rate testis → vas efferentia → vas deferens → epididymi.
 - d) Rate testis \rightarrow vasa efferentis \rightarrow epididymis \rightarrow vas deferens
- 10. Read the following assertion and reason and select the correct answer.
 - **Assertion** (A): The seminal vesicles secrete an alkaline fluid called seminal plasma.

Reason (R): It contain fructose sugar, ascorbic acid and prostaglandins.

- a) A and R are true, R is the correct explanation of A
- b) A and R are true, R is not the correct explanation of A
- c) A is true, R is false
- Both A and R are false
- 11. Energy for the movement of sperm produced from
 - a) Acrosome
- b) Nucleus
- c) Mitochondria
- d) Axial filaments

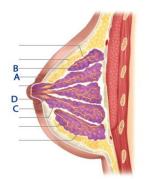
- 12. Semen
 - (i) Seminal fluid is a milky white it contains sperms and the seminal plasma
 - (ii) Semen contains vesiculase and hyaluronidase and proteolytic enzyme
 - (iii) Seminal fluid act as transport medium, provides nutrients and facilitate their movement
 - (iv) Secreted from the seminal vesicles, prostate gland and the bulbourethral glands
 - a) (i) (ii) and (iii)

b) (i) (iii) and (iv)

c) (ii) (iii) and (iv)

- d) (i) (ii) and (iv)
- 13. Release of FSH and LH from pituitary being controlled by
 - a) Brain
- b) Thalamus
- c) Hypothalamus
- d) Medulla

14. The given diagram is of Mammary gland, Identify the parts labeled as A, B, Cand D



a) A-Areola,	B-Lobe,	C-Mammary ampulla	D-Lactiferous duct
b) A- Nipple	B-Adipose issue	C-alveoli	D-Lactiferous duct
c) A-Areola,	B-Lobe	C-Mammary duct	D-Lactei ferrous duct
d) A-Nipple	B-Adiposefissue	C-Alveoli	D-Mammary ampula

- The germinal epithelium of ovary is enclosed by 15.
 - a) Ovarian stroma b) Mesovarium
 - c) Tunica albuginea d) None
- Which of the following is middle thick muscular layer of uterus? 16.
 - a) Perimetrium
- b) Myometrium
- c) Endometrium
- d) Mesovarium
- Which of the following is inner glandular layer of uterus? 17.
 - a) Perimetrium
- b) Myometrium c) Endometrium
- d) Mesovarium

- Oestrogen is which type of hormone? 18.
 - a) Protein
- b) A. acid
- c) Glycoids

d) Steroid

Match the homologous gland of male and female 19.

A Bartholin's gland i) Prostate gland	
11 Burtholm's gland 1) 110state gland	
B Skene's gland ii) Leyding cells	
C Mammary gland iii) Bulbourethral g	gland
D Interstitial cells iv) Swet gland	

- a) A-(iii) **B**(i) c)
- A-(iv) B-(iii) C-(ii) D-(i) **C**-(iv) D-(ii)
- b) A-(iii) d) A-(ii)
- B-(i) C-(ii) D-(iv) B-(iii) C-(iv) D-(i)
- Which cannot be considered as an indicator of a women's virginity? 20.
 - a) Clitoris
- b) Hymen
- c) Labia major
- d) Labia minora

- 21. Mammary gland
 - (i) Internally each mammary gland consist of 2-25 lobes, separated by fat and connective tissues
 - (ii) Each lobe is made upof lobules which contain acini or alveoli lined epithelial cells
 - (iii) Alveoli open to mammary tubules, each lobe join to form a mammary duct
 - (iv) Several mammary duct join to form a wider mammary ampulla, connected to the lactiferous duct in the nipple
 - a) (i) Only

- b) (i), (ii) Only c) (i), (ii), (iii) Only d) (i), (ii), (iii) and (iv)
- The whole process of spermatogenesis take place about 22.
 - a) 64 days
- b) 28 days
- c) 64 hours
- d) 28 hours

23.	How many number of sperms produced p	per day ?			
	a) 200 million	b) Above 200 mi	llion		
	c) Below 200 million	d)Above 300 mill	ion		
24.	Which hormone initiated spermatogeness	is, starts at the age of	puberty?		
	a) Gonadotropin Releasing Hormone(Gn	RH) b) Luter	nzing Hormone (LH)		
	c) Follicle Stimulating Hormone (FSH)	d) Human Chorionic	Gonadotropin (HCG)		
25.	The size of human ovum is measured as				
	a) 75 μ m b) 1.72 μ	c) $100 \mu \text{m}$	d) 50μ m		
26.	Primary egg membrane is				
	a) Zona radiata b) Corona radiate	c) Theca interna	d) Zona pellucida		
27.	In human the fertilization of ovum takes	· ·			
	a) Uterus b) Vagena	c) Fallopian duct			
28.	How many sperms produce in the life tin	ne of males?			
	(a) 500 billion (b) 500 Million	(c) 400 billion	(d) 400 billion		
29.	Acrosome of spermatozoan is derived fr	om which part of the	spermatid?		
	(a) Mitochodria (b) Golgi apparatus	(c) Nucleus	(d) Lysosome		
30.	Match it:-				
	A) Primary oocytes - (i) A fluid filled	space the antrum deve	elops the follicle		
	B) Primary follicles - (ii) Many layer	of granulose cells nev	w these layer		
	C) Secondary follicles-(iii) Single layer of granulose cells from primordial				
	D) Tertiary follicles - (iv) Oogonia				
	a) A –(iii) B – (iv) C – (ii) D – (i) b)				
	c) $A - (iv)$ $B - (iii)$ $C - (ii)$ $D - (i)$ d)				
31.	Human ovum				
	i) Non – cleidoic, alecithal				
	ii) Cytoplasm of ovum is ooplasm				
	iii) Ooplasm contain large nucles called	germinal vesicle			
	iv) Ovam is surrounded by four covening	_			
	a) (i) (ii) and (iii) b) (i) (ii) and (iv) c)	(ii) (iii) and (iv) d) (i) (iii) and (iv)		
32.	Capacitation occur in				
	(a) Epididymis	(b) Vas deferens			
	(c) Female reproductive track	(d) Rete testis			
33.	Menstrual cycle				
	(i) The reproductive of female from me	narch to menopause			
	(ii) Every cycle occurs approximately o	<u> </u>	-		
	(iii) Cyclic menstruation is an indicator	of normal reproductiv	e phase		
	(a) (i) only (b) (iii) only	(c) (ii) only	(d) (i) (ii) and (iii)		
34.	Human ovarian cycle consists of 28 days				
	(a) 5 nd day of cycle	(b) 14 nd day of cy			
	(c) 21^{nd} day of cycle	(d) 28^{nd} day of cy	cle		
35.	Glans penis covered by				
	(a) Areomembrana (b) Prepuse	(c) Metrium	(d) None		

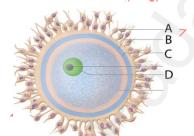
- 36. Which vital for good health, well being, dignity, empowerment and productivity of women?
 - (a) Menstrual hygiene

(b) Menstrial cups

(c) Sanitary napkins

- (d) Clothing materials
- 37. Which have been clean and safe identified as material used to manage menstruation?
 - (a) Sanitary napkins
- (b) Tampons
- (c) Menstrualcups
- (d) All the above
- 38. **Statement I -** The sperms deposited in the female reproductive track undergo capacitation
 - **Statement II** Fertilisation occurs only if the ovum and sperms are transported simultaneously to the ampullary isthmic junction of the fallopian tube
 - (a) Statement I in correct and II wrong
 - (b) Statement I and II wrong
 - (c) Statement I and II correct
 - (d) Statement I is wrong and II is correct
- 39. Which embryonic layer develop the endoderm?
 - (a) Epiblast
- (b) Hypoblast
- (c) Both (a) and (b)
- (d) Chrionic villi
- 40. Which forms a small out pocketing of embryonic tissue at the caudal end of the yolk sac?
 - a) Amnion
- b) Yolk Sac
- c) Allantois
- d) Chorion
- 41. Which layer of germ its derivatives and mammary gland?
 - a) Ectoderm
- b) Endoderm
- c) Mesoderm
- d) Placenta

42. Find out the A, B, C and D of human ovum.



a) A-Vitelline member	rane B-Zonapellucida	C-Corona radiata	D-Perivitelline
b) A-Acoronaradiata	B- Vitelline membrane	C-Preivitelline space	D-Germinal vesicle
c) A- Corona radiate	B-Zonapellucida	C-Vitelline membrane	D-Germinal vesicle
d) A-Outer theca exte	erna B-Inner theeainterna	C- Vitelline membrane	D-Ooplasm

- 43. Colostrum
 - (i) Nutrient rich fluid produced by the human female immediately after giving birth
 - (ii) It is loaded with immune growth and tissue repair factors
 - (iii) It is act as a natural antimicrobial agent to actively stimulate the maturity of he intent's immune system
 - (iv) Artificial feed can substitute the first milk
 - (a) (i) (ii) and (iii) (b) (i) (iii) and (iv) (c) (c) (i) (ii) and (iv) (d) (ii) (iii) and (iv)
- 44. Oxytocin causes_ reflex the actual ejection of milk from alveoli of the mammarygland
 - (a) Braxter Hicks (b) Ferguson reflex (c) Foetal ejection (d) Let Down-reflex N. SEKAR., M.Sc., B.Ed., P.G. Asst., Zoology, VEDHHA VIKASS HIR.SEC. SCHOOL SALEM. Cell: 9965454393.

45.	Which hormone he	lps in relaxation of	the pelvi ligaments at	the time of parturition?
	(a) Parturition	(b) Oestrogen	(c) Both (a) and	d (b) (d) Relaxin
46.	Colostrum is rich			
	(a) Ig A	(b) Ig E	(c) Ig M	(d) Ig G
47.	World Breast Feedi	ing Week (WBW)		
	(a) August 1st week	(b) Auguest 3 rd wee	ek (c) October 1st we	ek (d) October 3 rd week
48.	Which refers to the	e failure of spermato	ogenesis?	
	(a) Zoospermia	(b) Azoospern	nia (c) Oligosperm	ia (d) None
49.	The mature sperms	are stored in the		
	a. Seminiferous tub	ules b.Vas deferei	ns c. Epididymis	d. Seminal vesicle
50.	The male sex horm	one testosterone is s	secreted from	
	a. Sertoli cells	b. Leydig ce	<u> </u>	d. Prostate gland
51.	_		produces the largest pr	
	a. Seminal vesicle	b. Bulbourethral gla	and c. Prostate glan	d d. Mucous gland
52.	The male homologi	ue of the female clit		
	a. Scrotum	b. Penis	c. Urethra	d. Testis
53.	The site of embryo			77
		b. Peritoneal cavity		d. Fallopian tube
54.			sis of the umbilical co	
		b. Amnion	c. Chorion	d. Yolk sac
55.			ng and maintaining la	
	a. Oestrogen	b. FSH	c. Prolactin	d. Oxytocin
56	Mammalian egg is			
	a. Mesolecithal and			l and non cleidoic
	c. Alecithal and nor		d. Alecithal and	
57.			s before penetrating t	
5 0	-		c. Spermiogene	-
58.	41		nd D in the given diag	ram of human sperm
	and select the corre	ect option.		
		C-A		
		B		
1	a) Nucleus	Neck	Acrosome	Mitocondria
	b) Acrosome	Neck	Nucleus	Mitocondria
	c) Nucleus	Middle piece	Acrosome	Mitocondria
50	d) Nucleus The milk secreted h	Neck	Middle piece	Mitocondria
59			ands soon after child b	
60		b. Colostrum	c. Lactose	d. Sucrose
60.	Colostrum is rich in		o Ia D	d IaM
	a. Ig E	b. Ig A	c. Ig D	d. Ig M

BEST WAY (ZOOLOGY)

HUMAN REPRODDUCTIVE HEALTH

MARKS: 50

TIME: 45 Mins

SUB: BIO - ZOOLOGY (Chapter – 3 : One mark Test)

STD: XII

1.	Which represents a society with people havi	ng physically and functi	onally normal
	reproductive organ?	1) 7	A
	a) Reproductive health	b) Reproductive system	1
_	c) Nerves and endocrine system	d) All the above	
2.	Reproductive system		
	(i) Complex system		
	(ii) Controlled by neuro- endocrine system		
	(iii) Important to take necessary steps to pro	otect	
	(iv) Not from infectious diseases		
	a) (i) (ii) and (iii) b) (i) (ii) and (iv)	c) (ii) (iii) and (iv)	d) All the above
3.	Family planning programme started at		
	a)1961 b)1971	c) 1951	d)1857
4.	Which technique is being often misused to d	letermine the sex of the t	foetus?
	a) Ultrasound b) Foetoscope c) Bo	th (a) and (b) d).	Amniocentesis
5.	Female foeticide refers to		
	a) Aborting the female in the mother's wom	b	
	b) Killing the female child after her birth		
	c) Both (a) and (b)		
	d) None		
6.	In UNDP'S GII (2018)- replaced that India	was ranked at	
	a)135 b) 155	c) 187	d) 197
7.	PCPNDT means		
	a) Prevention of Children from Sexual Offer	nces	
	b) Preconception and Diagbistic Technique		
	c) Preconception and Prenatal Diagnostic Te	echnique	
	d) Preconception and Post Conception Tech	nique	
8.	Which committee aims at creating a safe and	d secure envinment for b	oth female and
	males?		
	a) Verma Committee b) Justice Vermaz	c) Both (a) and (b)	d) None
9.	According to a recent report from the on Ind	lia's population has alrea	ady reached at
	a) 1.26 billion b) 1.26 million	c) 1.62 billion	l) 1.62 million
10	POCSO		
	a) Preconception and Prenatal Diagnostic Te	echnique	
	b) Preconception and Diagbistic Technique	-	
	c) Preconception and Post Conception techn	nique	
	d) Prevention of Children from Sexual Offer	=	
11.	Which one of the following oldest family pl	anning method?	
	(a) Lactational amenorrhoea	(b) Continuous abstiner	nce
	(c) Coitus interruptus	(d) Periodic abstinence	
N. S	EKAR., M.Sc., B.Ed., P.G. Asst., Zoology, VEDHHA VIKAS	• •	

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Diaphragms

	(a) Female (b) Male	(c) B	Both (a)	and (t)	(d) N	None of th	em
13.	Given below statement, find	out which one	is True	e/False	. Abou	ıt natu	ral birth c	ontrol
	methods							
	(i) Periodic abstinence - of	valation occur	about	14th da	y ovar	n surr	ies for abo	out 2
	days and sperm remain	ns alive for abo	out 72 l	nours –	- coitus	s is to	be avoide	d
	during this time.							
	(ii) Coitus interruptus – i	s newly family	, planni	ing me	thod, t	he ma	le partner	
	withdraws is pen is before	•	-	U	,			
	(iii) Continuous abstinence	U		reliab	le wav	to av	oid pregna	inev
	is not to have coitus for	-			•		~ \\ a \	
	(iv) Lactational amenorrh	-				_		eks
	from parturition, the rea							
	six months during breas							
	(a) True True	False		False				
	(b) True True	True		False				
	(c) True False	True		True				
	(d) False True	False		True				
14.	Match column –I with colum	nn- II by choos	e the co	orrect o	option	about	barrier m	ethod
	COLUMN -I			LUM	-			
	(A) Chemical barrier	(i) Inserted	by med	lical ex	norts	in utei	711S	
	(B) Mechanical barrier	(ii) Thickness			_	iii atoi	4 5	
	(C) Hormonal barrier	(iii) Condom				cove	r the peni	s
	(D) Intrauterine devices	(iv) Melting					-	
	(E) mirationine actives	the sper			-	, cricat i		
	a) (iv) (iii) (ii) (i)		b)	(iii)	(ii)	(i)	(iv)	
	c) (ii) (iii) (iv) (i)		d)	(iii)	(iv)	(i)	(ii)	
15.	Saheli	7	٠,	(111)	(-1)	(-)	(11)	
	(i) Contraceptive pills	(ii) By Cer	ntral Di	rug Re	search	Institu	ute in Luc	kown
	(iii) Contains non-steroidal -	· · · · · · · · · · · · · · · · · · ·		_				
	(a) (i) (ii) and (iii)	\	, ,) (ii) a			_,,,,,	
	(c) (ii) (iii) and (iv)		, , ,) (ii) (i	, ,			
16.	Intrauterine systems (IUS)				,	()		
	(a) Copper releasing IUDs		(b) H	lormon	e-relea	asing l	IUDs	
	(c) Non-medicated IUDs			Il the		C		
17.	Which method is the surgica	l produce for n	, ,					
		ctomy		iaphra		(d) C	Cervical co	ops
18.	Which method is the surigical	<u>~</u>		_	_	` ′		1
	(a) Tubectomy (b) Vased	_		iaphra			Cervical co	ops
19.	MTP	J	(-) -	w	~ ن			T.
-	a) Medical Transfer Method	b) M	ledical	Fermin	nation	of Pre	gnancy	
	c) Assist Reproductive Tech	*					hnology	
	, r			- F -			- 01	

20.	Early Medical Terminat	ion is extremely sat	fe up to		
	a) 12 Weeks	b) 8 Weeks	c) 3 Weeks		d) 3 Months
21.	Prevention of STD				
	(i) Avoid sex with unk	nown person	(ii) Avoid s	-	person
	(iii) Use condoms		(iv) Take an		
	a) (i) (ii) and (iii)	b) (i) (iii) and (iv)			(i) (ii) and (iv)
22.	Select the incorrect symp	otoms of diseases fr	om the follov	ving.	
	(a) Candidiasis	 Attacks inte 	estinal track a	nd vagina	
	(b) Chlamydiasis	 Affects of co 	olumnar epith	elium of u	rinog <mark>enit</mark> al track
	(c) Genital herpes	Cutaneous of	or mucosal ge	nital damag	ge /
	(d) Genital warts	Tumour on	the external g	genitalia and	cervix
23.	Enlarges lymph modes	prolonged fever, pro	olonged diarrl	hoea causes	
	(a) HIV (b) H		(c) HBV		(d) HPV
24.	Cervical cancer causes				/
	(a) HPV (b) H	BV	(c) HIV		(d) PID
25.	Lymphogranuloma vene	rum			
	(a) Swelling in the groin				
	(b) Genitel elephantiasis				
	(c) Affect the cells colum	<u> </u>			
	(d) Pain and pus discharg	-	ck >		
26.	Match the column I and			1	
	COLUMN		MN II		
	A) Syphilis	(i) 2 to 21	•		
	B) Hepatitis B		weeks		
	C) Chlamydiasis	(iii) 30 to	•		
	D) Genital warts		90 days	(*)	(**)
	(a) (iv) (iii)	(ii) (i)	(b) (iii)	(i)	(ii) (iv)
27	(c) (ii) (i)	(iii) (iv)	(d) (ii)	(i)	(iv) (iii)
27.	Inability to conceive or	produce children ev	en after unpr	otected sexi	ial cohabitation
	called	(l-) F4:1:4:	(-) I1	4-4:	(4) E- 4:1:4
20	(a) Infertility	(b) Fertilization	(c) Impleme	ntation	(d) Fertility
28.	Anorexia in women	(b) Infantility	(a) Crowth		(d) Doin
29.	(a) Fertility Varicocoele	(b) Infertility	(c) Growth		(d) Pain
29.	(a) Undescended testes	(b) Swollen vein	(a) Roth (a)	and (b)	(d) None
30.	How many motile sperm	` '	` ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '	` ′	(d) None
<i>5</i> 0. •/	(a) 10,000 – 1,00,000	is are needed for ear	(b) 1,00,000		n
	(c) 1,000 – 1,00,000 (c) 1,000 – 10,000		(d) 1,00,000 (d) 1,00,000		O
31.	The first success of impl	antation technique			nσ
51.	a) 1975	b) 1978	was acineved c) 198		d) 1983
32.	World AIDS Day	0, 1770	C) 170	<i>,</i> 1	u, 1703
<i>5</i> 2 .	(a) 11 th July	(b) 1 st December	(c) 1 ^s	st April	(d) 1st August
	(4) 11 0415	(c) I December	(0) 1	P	(a) I Hagast

33.	The te	echnique in which the fertil	ized ov	a are introduced into	the fallopian tube is
	a) GII			c) ECD	d) IUD
34.		h method of embryos are cr	eated la	<i>'</i>	ŕ
54.	uterus		catea it	ioca nunsienca ma	the surrogate mother s
	(a) TE			(c) IUI	(d) IVF
35.	TESE	• •		(6) 101	(4) 1 1 1
55.		icro – Testicular Sperm Ex	traction	(b) Intra-Uterin	e Insemination
		est Tube Baby	uction		productive Technology
36.		h one of the following grou	ns inclu	* *	1
50.		ria only?	ps mere	des serially classifi	itted discuses edused by
		philis, gonorrhoea and can	didiasis		
		philis, chlamydiasis and go			
		philis, gonorrhoea and tricl			
		philis, trichomoniasis and			
37.		fy the correct statements fr	-		
		nlamydiasis is a viral diseas			
	(b) Go	onorrhoea is caused by a sp	irochae	te bacterium, Trepor	nema palladium.
	(c) Th	ne incubation period for syp	hilis is	is 2 to 14 days in ma	ales and 7 to 21 days in
	fe	males			
	(d) B	Both syphilis and gonorrhoe	ea are ea	asily cured with anti	biotics
38.	The a	pproach which does not giv			±
	(a)	Hormonal			revent ovulation and
		contraceptive	fertiliza		
	(b)	Vasectomy		ts spermatogenesis	
	(c)	Barrier method		ts fertilization	
	(d)	Intra uterine device		es phagocytosis of s	
20			-	•	ng capacity of sperms
39.		n column I with column II a	and sele	ct the correct option	from the codes given
	below		(:)	I NC 20	
		opper releasing IUD	` '	LNG-20	
		ormone releasing		Lippes loop IUD	
		on medicated IUD lini pills	/	Saheli Multiland 275	
		A-(iv), B-(ii), C-(i), D-	(iv)	Multiload-375	
	(c)		-(iii) -(iii)		B-(i), C-(iii), D-(ii) B-(i), C-(ii), D-(iii)
40.		h of the following is a horm		, , , , , , , , , , , , , , , , , , , ,	
40.	12	ultiload 375 b) LN		casing intradictine in cartical cartin cartical cartical cartical cartical cartical cartical cartical	
41.	,	ted reproductive technology		· •	
		rum into the fallopian tube	,, = , = 1	in the second of	~-
		gote into the fallopian tube)		
		gote into the uterus			
		bryo with 16 blastomeres i	nto the	fallopian tube	

- 42. Burning sensation during urination
 - (a) Syphilis (b) Gonorrhoea (c) Genital herps (d) Genital warts
- 43. Liver cirrhosis and liver failure occur in
 - (a) HIV

- (b) AIDS
- (c) HBV
- (d) HPV

- 44. TNHSP
 - (a) Tamil Nadu Health Project

- (b) Tamil Nadu Health Scheme
- (c) Tamil Nadu Health Systems Project
- (d) Tamil Nadu Health Organization
- 45. According to WHO, how many people are globally acquireds a sexually transmitted infection every day?
 - a) More than one million

b) Less than one million

c) One million

d) One trillion

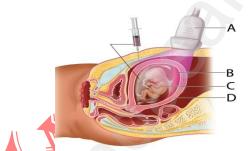
- 46. Symptoms fo Trachoma
 - (a) Gonorrhoea

(b) Syphills

(c) Chlamydiasis

- (d) Lympho granuloma venarium
- 47. What are the most common symptoms and signs of cervical cancer?
 - (a) Pelvic pain

- (b) Increased veginal discharge
- (c) Abnormal vaginal bleeding
- (d) All of the above
- 48. Given below diagram, Identify the labeled A, B, C and D select the right option.



A	В	C	D	
a) Ultrasound transducer	Placenta	Foetus	Uterus	
b) Ultrasound transducer	Foetus	Placenta	Uterus	
c) Amniotic fluid	Foetus	Placenta	Uterus	
d) Amniotic fluid	Placenta	Foetus	Uterus	

- 49. Modern screening techniques can detect by changes in the cervix
 - (a) Precancerous
- (b) Cancer

- (c) Both (a) and (b)
- (d) None

- 50. Which heavy metal ingestion leads to infertility?
 - (a) Calcium
- (b) Mercury
- (c) Cadmium
- (d) Iron

ALL THE BEST

BEST WAY (ZOOLOGY)

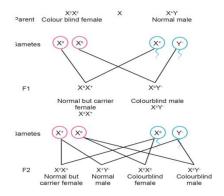
STD: XII
SUB: BIO-ZOOLOGY

PRINCIPLES OF INHERITANCE AND VARIATION
(Chapter – 4: One mark Test)

MARKS: 50
TIME: 45 Mins

1.	Genetics is				
	i) Branch of biology				
	ii) Study of heredity an	d variations			
	iii) Describe – how cha	racteristic pass fro	m parents to t	heir off	springs
	iv) Variation not occurs	-	-		
	a) (i) (ii) and (iii)		b) (i) (iii)	and	(iv)
	c) (ii) (iii) and (iv)		d) (i) (ii)	and	(iv)
2.	Which is the degree by	which the progeny	differs from	their par	rents?
	a) Genetics	b) Science		ariation	
3.	The inheritance of mult	iple alleles are call	ed as		
	a) Single alleles	_		utation	d) None
4.	Which method, the blo	od differs from per	son to person	2	
	a) Chemically	b) Physically	c) Biologic	ally	d) All the above
5.	Who discovered two kin	nds of antigen calle	ed antigen 'A'	and ant	igen 'B' on the
	surface of RBC's of hu	man blood?			
	a) Karl Landsteiner	b) Bernestein	c) Von De	castelle	d) Sturli
6.	Who was discovered blo	ood group 'AB'?			
	a) Von De castelle	b) Sturli			d) Both (a) and (b)
7.	Which number of chron	nosome are concer	ned with the d	etermin	ation of blood group
	in any person?				
	a) Chromosome 6) Chromosome 9	c) Chromoso	me 12	d) Chromosome 13
8.	Genes for blood group				
		b) Co – dominant			d) None
9.	Which of the following	approach does no	t give the defi	ned action	on of blood allele?
	BLOOD GROUPS	1.7	ZYME		
	a) I ^A		alactosamine		
	b) IB	Galactoseti	ansferase		
	c) I ⁰	No trasnfer	ase		
	$I^{A}I^{B}$		the precursor		
10.	Which of the following		possible in the	progen	y of the parental
	genotypic combination	$I^{A}I^{O} \times I^{B}I^{O}$?			
	a) AB	b) O	c) A		d) B
11.	How many phenotypes	are possible in blo	od groups?		
	a) Two	b) Four	c) Six		d) Eight
12.	Rh factor was first foun	d in			
	a) Rhesus Monkey	b) Man	c) Rabbit		d) Mice
13.	The term 'Rh factor' re				
	a) Immunogenic D antig	gen			genic D antigen
	c) Only D antigen		d) Antibo	dy only	

14. Below the flow chart define, Which type of diseases?



a) Inheritance of X-Linked gene

b) Inheritance of Y-linked gene

c) Both (a) and (b)

- d) None
- 15. Which sex chromosome may be dissimilar in one sex?
 - a) Homomorphic
- b) Heteromorphic
- c) Both (a) and (b)
- d) None
- 16. Which statement is correct about the Fisher and Race hypothesis?
 - i) Rh factor involves three different pairs of alleles located on three different closely linked loci on the chromosome pair
 - ii) This system is more commonly in use today and uses the 'C de' nomenclature.
 - iii) All genotype carrying a dominant 'D' allele will produce Rh⁺ positive, recessive genotype 'dd' will give rise to Rh ⁻ negative phenotype
 - iv) He proposed the existence of eight alleles at a single Rh locus
 - a) (i) (iii) and (iv)

b) (i) (iii) and (iv)

c) (i) (ii) and (iii)

- d) (ii) (iii) and (iv)
- 17. **Assertion (A):** Erythoblastosisfoetalis.

Reason (R): Second birth mother carry Rh – positive children, mother Rh antigen are carried across the placenta into foetal circulation.

- a) A and R are true, R is the correct explanation of A
- b) A and R are true, R is not the correct explanation of A
- c) A is true, R is false
- d) Both A and R are false
- 18. XX-XO type of sex determination is seen in
 - a) Bugs
- b) Cockroach
- c) Grasshopper
- d)All the above
- 19. The NRY is divided equally into function genes ----
 - a) Euchromatic
- b) Heterochromatic c) Pseudochromatic
- d) All the above

20. Match the Column –I and Column –II

	COLUMN -I	COLUMN –II		
A) PAR	(i)	Tests determining factors	
B)) NRY	(ii)	Sex determining region Y	
\mathbf{C}) SRY	(iii)	Non – combining region X	
D) TDE	(iv)	Pseudoautosomal region	

a) (iii) (iv) (i) (ii) c) (iv) (iii) (ii) (i) b) (i) (iii)

(iv) (ii)

d) (iv) (ii) (i) (iii)

21. Which have barr body? a) XO female b) XX female c) XXY males d) YO males 22. Flow chart represented by Famale (Homogametic) (Heterogametic) Parents 44A + XY44A + XXGametes Sperms Ova (22A+X)(22A+Y)(22A+X)(22A+X)Offsprings/ (44A+XX) (44A+XY) (44A+XX) (44A+XY) Progeny Female Male Female Male a) Sex determination of honey bee b) Sex determination of human c) Sex determination of Drosophila d) Sex determination of Birds 23. Haemophilia is more common in males because it is a) Recessive character carried by Y Chromosome b) Dominant character carried by Y Chromosome c) Dominant trait carried by X Chromosome d) Recessive trait carried by X Chromosome When normal visioned man marries a colour blind women? 24. b) All daughter will be colour blind a) All sons will be normal visioned c) All sons will be colour blind d) All children will be colour blind Which substance to arrest cell division at metaphase stage in mitosis? 25. b) Clochitonine a) Colchicine c) Both (a) and (b) d) Proteases 26. Karyotyping i) Technique through which a complete set of chromosomes is separated from cell. ii) Chromosomes are arranged in pair. iii) An ideogram refers to a diagrammatic representation of chromosomes. b) (i) and (ii) a) (i) c) (ii) and (iii) d) All the above **Assertion** (A): Colour blindness and haemophilia are sex linked inheritance. 27. **Reason** (R): Colour blindness and haemophilia are X linked recessive traits. a) If both A and R are true and R is correct explanation for A b) If both A and R are true but R is not correct explanation for A c) If A is true but R is false d) If both A and R are false Consanguineous marriage 29. Patau's syndrome is caused due to a) Meiotic disjunction b) Mitotic disjunction c) Meiotic non disjunction d) Mitotic non disjunction Which one is most common type of thalassemia? 30. a) Anaemia b) Cooley's anaemia c) Alpha thalassemia d) Beta thalassemia

31. Match the column -I and column -II about Mendelian disorder.

	COL	UMN –I		COLUMN –II
A)	Thalass	semia	i)	Autosomal dominant
B)	Phenyll	ketouria	ii)	In born error of metabolism
C)	Albinisı	n	iii)	Inborn error of phenylalanine
D)	Hunting	ton's chorea	iv)	Excessive destruction of RBC's
a)	(iv)	(iii)	(i)	(ii)
b)	(iv)	(ii)	(iii)	(i)
c)	(iv)	(iii)	(ii)	(i)

(i)

- 32. Assertion (A): Trisomic condition of chromosome 21 result in Down's syndrome
 Reason (R): Mitotic (or) meiotic non disjunction of set chromosomes causes allosomal abnormalities.
 - a) If both A and R are true and R is correct explanation for A
 - b) If both A and R are true but R is not correct explanation for A

(iii)

- c) If A is true but R is false
- d) If both A and R are false
- 33. Which disease characterised by severe mental retardation, light pigmentation of skin and hair?
 - a) Huntington's chorea
 - c) Phenylketonuria

- b) Albinism
- d) Thalassemia

- 34. Melanin pigment present in
 - a) Skin

d)

(ii)

b) Hair

- c) Iris
- d) All the above

35. Trisomic condition of chromosome -21 result in

(iv)

a) Down's syndrome

b) Patau's syndrome

c) Klinefelter's syndrome

d) Turner's syndrome.

- 36. Symptoms of Trisomy -13
 - a) Malformation of the brain and internal organs
- b) Sterile female
- c) Rudimentary gonads lack of menstrual cycle.
- d) Sterile males

37. Karyotype technique was described by



a) James Watson and Francis Crick

b) Fraenkel – Conrat and Singer

c) Hershy - Chase

d) Tjio and Levan

- 38. Klinefelter's symptoms
 - a) High pitched voice
- b) Long limbs
- c) Obese
- d) All the above

<i>3</i> 9.	A human female with Turner's syndrom	ne	
	a) 45 chromosomes(44 autosomes and	one X chromosor	ne)
	b) Has one additional X chromosome.		
	c) 45 chromosome with XXY		
	d) 47 chromosome (44mAA + XXY)		
40.	Haemophilia is more common in males	because it is a	
	a) Recessive character carried by Y-chi		▲ L
	b) Dominant character carried by Y-chi		
	c) Dominant trait carried by X-chromo		
	d) Recessive trait carried by X-chromo		
41.	Three children of a family have blood g		B. What could be the
	genotypes of their parents?	10 a ps 11, 11 D and	2. What could be une
	a) I ^A I ^B and ii b)I ^A I ^O and I ^B I ^O	c) I ^B I ^B and I	A IA (d) IA IA and ii
42.	If the childs blood group is 'O' and fath	· _	
72.	group is 'B' the genotype of the parents	— — — — — — — — — — — — — — — — — — —	s A and mother s blood
	a) I ^A IAand I ^B I ^O b) I ^A Ioand I ^B I ^O	c) I ^A I ^o and	I ^O I ^O d) I ^O I ^O and I ^B I ^B
43.	Who is the founder of Modern Eugenics		d) I I and I I
45.	a) Mendel b) Darwin		aton d) Karl pearson
44.	Which one of the following symbols and		
44.		u its representatio	in, used in numan pedigree
	analysis is correct?	(b) 0-	-I Inaffacted mala
	a) ====Mating between relatives		=Unaffected male
15	c) =Unaffected female	a) V=	Male affected
45.	Select the correct match.	× 11 1 1	
	/ 1	linked	
	b) Phenylketonuria	Autosomal domina	antrait
	c) Sickle cell anaemia - A	Autosomal recessi	ve trait, chromosome-11
	d) Thalassemia - X	K linked	
46.	Which of the following conditions cause		foetalis?
	a) Mother Rh ^{tve} and foetus Rh ^{-ve}	=	other Rh-ve and foetus Rh-ve
	c) Both Mother and foetus Rh ^{+ve}	,	th Mother and foetus Rh-ve
47.	In a population of 1000 individuals 360		
	remaining 160to aa, Based on this data,		-
	(a) 0.4 (b) 0.5	(c) 0.6	(d) 0.7
48.	Klinefelter's syndrome is characterized	` /	` '
TU.	a) XYY b) XO	c) XXX	d) XXY
49.	Which of the following is true about Rh	,	,
→ <i>7</i> . • <i>7</i>	combination Dd X Dd (both Rh positiv		pring or a parentar
	· · · · · · · · · · · · · · · · · · ·		ha Dh positiva
	a) All will be Rh-positive		be Rh positive
50	c) About 34 will be Rh negative Which of the following phonetypes is n		ourth will be Rh negative
50.	Which of the following phenotypes is no constant a combination IAIO V. IAIB 2	or bossinie ili me	progery of the parental
	genotypic combination I ^A I ^O X I ^A I ^B ?	a) A	d /b
	a) AB b) O	c) A	d) B

BEST WAY (ZOOLOGY)

MOLECULAR GENETICS

SUB: BIO - ZOOLOGY (Chapter – 5 : One mark Test)

STD: XII

MARKS: 60 TIME: 45 Mins

1.	Which theory dispelled the mystery		med to a	ppear and	disappear	r
	magically from one generation to the	ie next?	(h) D	omrain's 1	haami	ll .
	(a) Lamarks's theory			arwain's 1	-	\setminus
2	(c) Mendel's theory		(a) F	All the abo	ove	
2	Genome	of o 41-04 mas	ماله ماله	: 	a da	
	(i) Long sequence of nucleic acids	or a that pro	ovide the	informati	on needed	1 10
	construct the organism					7
	(ii) Complete set of hereditary info				1	1
	(iii) May be divided into number of	different nu	cieic acio	may con	tain large	number
	of genes	414			ala muakai	
	(iv) Genome sequence within the nu					
2	(a) (i) (ii) and (iii) (b) (i) (ii) and) (111) and	1 (1V) (a) (1) (111) 8	ana (1)
3.	The concept of gene was first explain		10402		1) 10102-	
1	(a) 1860's (b)1900's		1940's	(d) 1910's	}
4.	Who was coined by the term "gene'			D 41 -		
	(a) Gregormendel		George			
_	(c) Altman	(a)	wilnein	n Johanns	en	
5.	One gene-one enzyme hypothesis	(a) D - 41-	(-) 1	(1-)) C-1: N	/ ₁ - 1 1
_	(a) George Beadle (b) Edward Tata			(b) (a) Colin N	racieod
6.	Match the columns and find the corn					
	COLUMN I	COLUM	NII			
	A. Wilhelm Hofmeister	(i) 1909				
	B. Friedrish Miescher	(ii) 1920				
	C. Griffith	(iii) 1869				
	D. Wilhelm Johannsen	(iv) 1848	A (')	D (''')	G ('')	D (')
	(a) A-(iv) (B-(iii) C-(ii) D -	, ,	A-(iv)		C-(ii)	D –(i)
7	(c) A-(iv) B-(iii) C-(ii) D-	-(1) (a)	A-(iv)	B-(iii)	C-(ii)	D –(i)
7.	Hershey and Chase experiment on	(1-)	т 1	. 4 ¹ 1	_	
•	(a) Neurosporacrassa	, ,		teriophag	e	
0	(c) Escherichia coli	(a)	All the a	bove		
8.	Thymine is unique for	()	D 41 (.)	1 (1.)	(1)	DNIA
0	(a) DNA (b) RNA	, ,	Both (a)	and (b)	(a) n	nRNA
9.	Phosphodister bond indicating the p	-	<i>5</i>		(1) 2	, 1
10	(a) 5' 3' (b) 3' 5'	` /	5'only		(a) 3	'only
10.	The genetically modified DNA frag			1 (1.)	(1) N	r
11	(a) Plasmid DNA (b) Recombinant	, ,	, ,	, ,	(d) N	
11.	Which should be able to express itse				characters	S´ ?
	(a) Information storage	` '	Stability			
	(c) Variation through mutation			eplication		
N. 9	SEKAR., M.Sc., B.Ed., P.G. Asst., Zoology, VEDH	IHA VIKASS HIR	SEC. SCHO	OL - SALEM	. Cell : 9965	5454393.

12.	Which one is not true?				
	(a) $A=T$, $G=C$	(b) A=G, T-C	(c) C=G,A	(d) G=C,	A=T
13.	The term "RNA World	" first used by			
	(a) Leslin Orgel	(b) Francis brick	(c) Carl Woese	(d) Walte	r Gibert
14.	The length of E.coli DN	A is			
	(a) 0.136 mm	(b) 1.36mm	(c) 13.6mm	(d) 136 m	ım
15.	Read the following asse	rtion and reason an	d select the corre	ect answer.	
	Assertion (A): Nucleo	some			
	Reason (R): The neg	gative charged DNA	A is wrapped gro	und the positi	vely
	charged	histone octamere t	o form a structur	e.	
	a) A and R	are true, R is the co	orrect explanatio	n of A	
	b) A and R	are true, R is not th	ne correct explan	ation of A	
	c) A is true	e, R is false			
	d) Both A	and R are false			
16.	Which replication, the o	original double helix			
	(a) Conservative replicat		(b) Dispersive	-	
	(c) Semi – conservative	•	(d) All the above	ve	
17.	DNA replication in bact	teria occurs			
	(a) During S phase		(b) Within nucl		
	(c) Prior to fission	1 1	ust before transci	-	
18.	In the experiment condu			eavy ¹³ N to pr	ove semi-
	conservative model of D			/ 1\ 15x r	1 16x r
10	• • • • • • • • • • • • • • • • • • • •		N and ¹⁵ N	(d) 15 N ar	id ¹⁰ N
19.	Replication begins at the (a) Ori (b)	e initiation called th Okazaki fragments		(d) Termi	nator
20.	Find out the below expe		` '	` /	natoi
20.	replication?	imients support sen	inconscivative in	ouc of DNA	
	replication:		Generation I Ger	eration II	
			N-DNA 14 N-DNA	14 N-DNA	
		15 N-DNA	00000000	15 N-DNA	
		20 min	40 min	14 N-DNA	
		Gravitational force			
		15 N 15 N	14 N 15 N 14	14 15	
		Heavy	Hybrid	Light Hybrid	
	a) James Watson and Fra	ancis Crick l	o) Marshall Nirei	nherg and Sev	er Ochoa
	c) Meselson and Stah) Maurice Wilkin	•	
21.	Which strand (template				
21.	known?	strana with polarity) the replication		una
	(a) Leading strand		(b) Lagging Str	and	
	(c) Okazaki fragments		(d) All the above		
22.	Who proposed the centr	al dogma in moleci	, ,	. -	
	(a) Griffith (b) Franci		riedrish Miesche	r (d) Martl	na Chase
	(5) 114116	(0) 1		(5) 1.1610	

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23.	 Given below statement find out which one is True /False (i) The core enzyme (β1,β,α) is responsible for RNA synthesis 							
			nit is responsi					
		_	_		_		anscription bub	ble
			-	-			ence that forms	
		tructure in	_	•		•		•
		(i)	(ii)	(i	ii)	(iv)		
	(a)	True	False	Tr	ıe	False		
	(b)	False	True	Fa	se	True		
	(c)	True	True	Fa	lse	False		
	(d)	False	False	Tr	ıe	True		
24.	RNA	is the gene	etic material i	n				
	a) Fu	ngs	b) Bacteri	S		c) TMV		d) E coli
25.			_	and rea	son and	select the	e correct answer	•
	Assei	rtion (A):						
	Reas		-			roic struc	ctural genes hav	e interrupted
	non coding sequences							
	a) A and R are true, R is the correct explanation of A							
		b)	A and R are	rue, R	s not th	e correct	explanation of A	A
	c) A is true, R is false							
		d)	Both A and F	R are fal	se			
26.	Whic	h hypothe	sized to have	played	a maio	r role in t	he evolution of	life on Earth?
_0,	a) HC		b) HGP	P		c) YAC		d) BAC
27.	,	mallest RN				-,		,
	a) mF		b) tRNA			c) rRNA		d)Rh RNA
28.	,		as discovered	by-		,		,
		renberg and				b) Nirenl	berg and Holley	
		lley and o				*	y, Nirenberg and	
29.	Whic	h codon ar	e designated	as termi	nation		d also are know	
		' codons?						
	a) UA	AA	b) UAG			c) UGA	d) A	All the above
30.	Matc	h the colum	nn I and colu	nn II al	out the	genetic c	ode:	
		COLUM	NI	CO	LUMN	II I		
	A	. UÚC		i. Le	ucine			

COLUMN I	COLUMN II
A. UUC	i. Leucine
B. UUA	ii. Serine
C. UCC	iii. Phenylalanine
D. UAU	iv. Tyrosine

$$) A - (ii) B - (i)$$

$$\overline{b}$$
 $A - (ii)$ $B - (i)$ $C - (iii)$ $D - (iv)$

c)
$$A - (iii)$$
 $B - (i)$

$$C-(ii)$$
 $D-(iv)$

$$d)\ A-(iv)\quad B-(iii)\quad C-(ii)\quad D-(i)$$

Which of the following is correct pair 31.

a) AAA – Asparagine

b) UUU – Leucine

c) CCC – Histidine

d) GGG - Glycine

32.	UAA, UAG and UGA codons are desi	gnated codons are known as	
	a) Start codon b) Non – sense	_	d) None
33.	The relationship between genes and DN	NA are best understood by	studies
	a) Translation b) Genetic code	c) Transcription	d) Mutation
34.	Wobble hypothesis was proposed by	,	
	a) Holley b) Nirenberg	c) Khorana	d) Crick
35.	The Wobble effect is the		
	a) Lack of precision with regared to the	third base of anticodon and	codon
	b) Instability of the DNA molecule who		
	c) Instability of pairing when a purine p		
	d) Undulating movements of mRNA		
36.	The tRNA arms have loops such as		
	a) Amino acid binding loop	b) Anticodon lo	op
	c) Ribosomal binding loop	d) All the above	
37.	tRNA recognizes aminoacyl synthetase	e enzyme by	
	a) Anticodon b) DHU loop	c) TUC loop	d) AA site
38.	Polypeptide chain in eukaryotes in initi	ated by	
	a) Methionine b) Glycine	c) Leucine	d) Lysine
39.	Which of the following rRNA acts as s	tructural RNA as well as ribo	ozyme in
	bacteria?		
	a) 5 s rRNA b) 18 s rRNA	c) 23 s rRNA	d) 5.8 s rRNA
40.	In translation ribosome binding site is c	called as	
	a) Shine – Dalgarno Sequence	b) Translation sequence	ce
	c) Trnscription sequence	d) None	
41.	Translation occurs		
	a) Initiation b) Elongation	c) Termination	*
42.	Statement I: In prokaryotic translation	-	
		n its anticodon and the secon	d codon on the
	mRNA		
	Statement II: This step requires the co		GTP and two
	proteins called elongation		
	(a) Both statement I &II an		
	(b) Statement I is correct,		
	(c) Statement I is incorrect		
	(d) Both statement I &II a	re incorrect	
43.	Lac operon is	1) 5	
*/	a) Arabinose operon	b) Repressible operon	
	c) Inducible operon	d) Overlapping genes	
44.	Which enzymes brings about hydrolysi		alactose transfer?
	a) β – galactosidase	b) Permease	
4.5	c) Transacetylase	d) Aminoacyl synthesi	S
45.	Human genome is said to have approxi	——————————————————————————————————————	1091
	a) $2 \times 10^9 \text{ bp}$ b) $3 \times 10^9 \text{ bp}$	c) $4 \times 10^9 \text{ bp}$ d) 2	2.5 X 10′ bp

46. Match the column I and column II about Lac operon of structural genes and codes.

COLUMN – I	COLUMN – II
A. Lac Z	(i) Transacetylase
B. Lac Y	(ii) β – galactosidase
C. Lac A	(iii) Permease

a) A - (i) B - (ii) C - (iii)

b) A - (ii) B - (iii) C - (i)

c) A – (iii) B –(ii) C – (i)

- d) A (ii) B (i) C (iii)
- 47. Which enable formation of all the required enzymes needed for lactose metabolism?
 - a) Lac mRNA
- b) Lac tRNA
- c) Lac rRNA
- d) Lac DNA

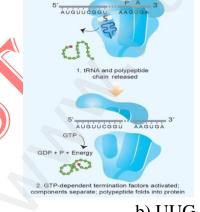
- 48. Largest gene in human is
 - a) Dystrophin b
 - b) Insulin gene
- c) Oncogene
- d) β globin + haemoglobin
- 49. The DNA finger printing technique was first developed by
 - a) Meselson
- b) Alec Jeffreys
- c) Avery
- d) Altman
- 50. In centrifugation, the bulk DNA forms major peak and the other small peaks are referred to as
 - a) Repetitive DNA

b) Satellite DNA

c) Isolation of DNA

d) Transferring

- 51. In DNA finger printing
 - a) A positive identification can be made
 - b) A gel blot is all that is required
 - c) Multiple restriction digests generate unique fragments
 - d) The polymerase chain reaction amplifies finger DNA
- 52. Hershey and Chase experiment with bacteriophage showed that
 - a) Protein gets into the bacterial cells
- b) DNA is the genetic material
- c) DNA contains radioactive sulphur d) Virus
 - d) Viruses undergo transformation
- 53. Refer to the given diagram, for translated, Which codon present the "S"?



a) GGV

- b) UUG
- c) UGA
- d) AAG

- 54. A mRNA molecule is produced by
 - a) Replication

b) Transcription

c) Duplication

- d) Translation
- 55. The total number of nitrogenous bases in human genome is estimated to be about
 - a) 3.5 million
- b) 35000
- c) 35 million
- d) 3.1 billion

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- 56. The first codon to be deciphered was _____ which codes for _____.

 (a) AAA, proline
 (b) GGG, alanine
 (c) UUU, Phenylalanine
 (d)TTT, arginine
- 57. An operon is a:
 - (a) Protein that suppresses gene expression
 - (b) Protein that accelerates gene expression
 - (c) Cluster of structural genes with related function
 - (d) Gene that switched other genes on or off
- 58. The Okazaki fragments in DNA chain growth
 - a) Result in transcription
 - b) Polymerise in the 3' to 5' direction and forms replication fork
 - c) Prove semi- conservative nature of DNA replication
 - d) Polymerises in the 5' to 3'direction and explain 3' to 5' DNA replication
- 59. Reverse transcriptase is
 - a) RNA dependent RNA polymerase
- b) DNA dependent RNA polymerase
- c) DNA dependent DNA polymerase
- d) RNA dependent DNA polymerase
- 60. Escherichia coli fully labeled with N14 medium. The two strands of DNA molecules of the first generation bacteria have
 - a) Different density and do not resemble parent DNA
 - b) Different density but resemble parent DNA
 - c) Same density and resemble parent DNA
 - d) Same density but do not resemble parents DNA



BEST WAY (ZOOLOGY)

STD: SUB:	XII BIO - ZOOLO	GY (CVOLUT	ION mark Test)	MARKS: 60 TIME : 45 Mins
1.	Which of the	e following	contains ki	nds of ev	olution?	
	a) Chemica		b) Organ		c) Social	d) All the above
2.		_	neteorites y	ields an	estimated age fo	or the solar system and
	for earth as					
	a) $3.5 - 3.6$	•			b) 4.4 – 4.6 mi	Al .
_	c) 4.5 – 4.6	•		_	d) $4.5 - 4.6$ mi	
3.		_			select the corre	ect answer.
	Assertion:				1 1 1	
						at coalesced to form earth
						explanation for assertion rect explanation for
	assertion	scruon and	reason true	but Icasi	on is not the co	nect explanation for
	c) If assertion	on is true bu	t reason is	false		
	d) If both as					
4.	Abiogenesis					
	a) Henry Ba	•	b) Thoma	as Hutley	c) Haldane	d) Oparin
5.	Which state	s that life w	as created l	y a super	natural power r	espectfully referred to
	as"GOD"?		⊿ L			
	a) The theor	y of spontar	neous gene	ration	b) Abiogenesis	S
	c) Big bang				d) Theory of s	=
6.	-	and the second s			re but consisted	of
	(i) Ammon				_	
	(ii) The clir			•	_	.1
		All				drogen and oxygen
					rm water bodie	r condensed to form rain.
	a) (i) (ii) (iii		the depres	ision to 10	b) (i) (ii) (iii) a	
	c) (i) (ii) (iii		7)		d) (i) (ii) and (` '
7.				nich one is	, , , , , ,	oout Coacervates.
					out in aqueous	
	(ii) First pro	e-cells whic	h gradually	trams for	med into living	cells
	(iii) Coacer	vates were a	able to abso	orb & assi	milate organic	compounds form the
	enviror	nment				
				-	on - Haldane	
	a)	True	True	False	False	
	b)	False	False	True	True	
	c)	True	True	True	False	
	d)	True	False	False	False	

- 8. Haldane coined the term
 - a) Prebiotic soup b) Biotocsoup
- c) First living cell
- d) All the above

9. Match the column 1 and column 2.

	COLUMN 1		COLUMN 2
A	Abiogenesis	i)	Organic compounds
В	Biogenesis	ii)	Prebiotic soup
C	Haldane	iii)	Henry Bastian
D	Oparin	iv)	Thomas Huxley

- a) A (i)
- B (ii)
- C (iii)
- D (iv)
- b) A (ii)
- B (iii) C (iv)
 - D (i)

- c) A (iii)
- B (iv)
- C (i)
 - D (ii)
- d) A (iv)
- B (iii) C (ii)
 - **D** (i)

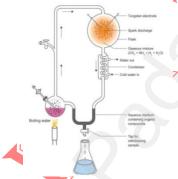
- 10. Monera are considered as ancestral to the modern
 - a) Bacteria
- b) Blue green alage
- c) Both (a) and (b) d) Viruses
- Urey and Miller experiment, a mixture of gases was allowed to circulate over electri 11. discharge from an
 - a) Tungsten electrode
- b) Tungsten node

c) Tungsten pin

d)None

- Which study of prehistoric life through fossils? 12.
 - a) Embryology
- b) Paleontology
- c) Entomology
- d) All the above
- Which lived 22 thousand years ago were preserved in the frozen coast of Siberia? 13.
 - a) Penguins
- b) Dolphins
- c) Woolly Mammoth
- d) Octopus

Find out the experiments. 14.



a) Haldane experiment

b) Urey-Miller's experiments

c) Oparin and Haldane

d) Charles Darwin experiments

- 15. Actual remains
 - (i) The original hard parts such as bones, teeth or shells are preserved as such in the Earth's atmosphere
 - (ii) Marine animal die, their hard parts such as bone, shell are covered from further deterioration, get preserved in vast ocean, the salinity in them prevents decay
 - (iii) The sediments become hardened to form definite layers or strata
 - (iv) If is the most common method of fossilization
 - a) (i) (ii) and (iii)

b) (i) (ii) and (iv)

c) (ii) (iii) and (iv)

- d) (i) (ii) (iii) and (iv)
- Which ancient city several human beings and animals living in the preserved intact 16. by volcanic ash out from mount Vesuvius
 - a) Siberia
- b) Pompeii
- c) Both (a) and (b)
- d) None

17.

17.	Which hardened faecal	matter occur as tin	y pellets?			
	a) Moulds b) C	Coprolites	c) Casts		d) A	all the above
18.	Structures which are six	milar in organ but <mark>j</mark>	perform diffe	erent func	tion are c	called as
	a) Analogous structures	S	b) Homo	logous str	uctures	
	c) Vestigial organs		d) Atavis	tic organ		
19.	Homologous structures	that brings about				
	a) Convergent evolutio	n	b) Diverg	gent evolu	tion	4 \
	c) Vestigial organ		d) Atavis	tic organ		
20.	Thorn of Bougaivilles i	is used as a				
	a) Defence mechanism	b) Support of cli	imbing c) B	Soth (a) an	nd (b)	d) None
21.	Match the column –I ar	nd column –II abo	ve comparati	ive anator	ny of evo	lution.
	COLUMN-I	COLUMN-II				
	A Homologous	i) Tail	a)	(iv) (ii	i) (ii)	(i)
	B Analogous	ii) Caecum	b)	(iv) (ii	i) (i)	(ii)
	C Vestigial organ	iii) Flipper	c)	(ii) (i)	(iv)	(iii)
	D Atavistic organ	iv) Fore limbs	d)	(iii) (i)	(iv)	(ii)
22.	Eye of octopus and man	mmals and flipper			hins are	
	a) Atavistic organs		b) Vestig	_		
	c) Homologous structur		d) Analog	gous struc	ture	
23.	Vermiform appendix is					
	a) Atavistic organs b)	Vestigial organc)	Homologous	organ	d) Analo	ogous organ
24.	Which pair is correct?				•	
	a) Reptiles and Human				_	_
25	c) Apes and Man - Ran	1		and Rept		_
25.	Sudden appearance of	vestigiai organ in n		_	m is calle	ea as
	a) Vestigial organ		b) Atavis	U	_	
26	c) Homologous organ	boant in anagadilas		gous orga	n	
26.	How many chambered				d) Thints	
27.		Three	c) Four		d) Thirte	eli
21.	Which is sequenced du a) mRNA b) r	ring study of phylo RNA	c) tRNA		d) DNA	
28.	Which evolution is the		<i>'</i>	nca comp	,	
20.	such as DNA, RNA an	•	-	ice compe	osition of	inolecules
	a) Micro evolution	id protein across ge		ular evolu	ıtion	
	c) Macro evolution		d) All the		111011	
29.	Jean Baptiste de Lamar	rck was the first to	*		f evolutio	on in
<i>2)</i> .	famous book	ck was the first to	postalate, th	c theory o	1 C V OTULIN	on m
	a) The orgin of species	by natural selectio	n b)	Philosoph	ie Zoolo	giane
	c) Both (a) and (b)	=) The origin	_		
30.	Charles Darwin explain			-	-) - (400	
	a) The origin of species				sophie Zo	ologique
	c) Both (a) and (b)	•		d) None	1	U 1
	* * * * * * * * * * * * * * * * * * * *			-		

31.	Read the following assertion and reason choose the correct answer about the Lamarck's theory
	Assertion: The theory of use and disuse
	Reason : Organs that are used often will increase in size and those that are not
	used will degenerate
	a) If both assertion and reason are true but reason is correct explanation for
	assertion
	b) If both assertion and reason true but reason is not the correct explanation for assertion
	c) If assertion is true but reason is false
	d) If both assertion and reason are false
32.	Elephant
3 2.	(i) The slowest breeder
	(ii) Can produce six young ones in its life time
	(iii) Can produce 6 million descendants at the end of 750 years (absence any check)
	(iv) Not for prodigality of production
	a) (i), (ii) and (iv) b) (i), (iii) and (iv) c) (ii), (iii) and (iv) d) (i), (ii) and (iii)
33.	Darwin compared origin of species by natural selection to a
	a) Large isolated group b) Small isolated group c) Both (a) and (b) d) None
34.	Darwin judged the fitness of individual through
	a) Ability to defend b) Strategy for obtaining food
	c) Number of offspring d) Dominance over others
35.	Sudden and large variations were responsible for the origin of new species by
	a) Hugo de Varies b) Lamarck c) Darwin d) Both (a) and (b)
36.	Which refers to changes in the structure of chromosomes due to deletion, addition,
	duplication, inversion or translocation?
	a) Gene mutation b) Chromosomal mutation
	c) Genetic recombination d) Natural selection
37.	Which is due to crossing over of genes during meiosis?
	a) Gene mutation b) Chromosomal mutation
	c) Genetic recombination d) Natural selection
38.	Which helps in preventing interbreeding between related organisms?
	a) Genetic recombination b) Natural selection
	c) Reproductive isolation d) All the above
39.	Industrial melanism is clear through
	a) Artificial selection b) Natural selection c) Osilation d) All the above
40.	Industrial melanism is a classical case natural selection exhibited by
	a) Arucheopteryx b) Peripatus c) Peppered moth d) Woolly Mammoth
41.	Best examples for adaptive radiation
	a) Darwin's Finches b) Australian Marsupials c) Both (a) and (b) d) None
42.	Which gene in the DNA of genetic variation associated with in the beak shape?
	a) ALX b) ALX1 c) ALX3 d) ALY1

- 43. Marsupials and placental mammals were separated from the common ancestor more
 - a)100 million years ago

b) 50 million years ago

c) 10 million years ago

- d) 5 million years ago
- Which type of selection operates in a stable environment? 44.
 - a) Stabilizing selection

b) Directional selection

c) Disruptive selection

- d) All the above
- Read the following assertion and reason, find out the correct answer 45.

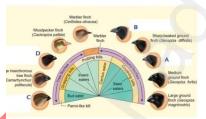
Assertion: Evolution

- : Does not mean that the population is moving towards perfection rather Reason the population is changing its genetic makeup over generations.
- a) If both assertion and reason are correct and reason is the correct explanation of the assertion
- b) If both assertion & reason are correct and reason is not correct explanation of the assertion
- c) If assertion is correct but reason is incorrect
- d) If both assertion and reason incorrect
- "Golden age of Reptiles" 46.
 - a) Precambrian
- b) Paleozoic
- c) Mesozoic
- d) Cenozoic
- The phenomenon of "Industrial Melanism" demonstrates 47.
 - a) Natural selection

b) Induced mutation

c) Reproductive isolation

- d) Geographical isolation
- Find out the Darwin's finches. A, B, C and D. 48.



A	В	C	D
a) Geospiza fuliginosa	Geospiza scandens	Platyspiza crassirostris	Camarhynchus parvulus
b) Certhidea olivocea	Geospiza difficilis	Geospiza fortis	Camarhynchu speitacula
c) Camarhynchus parvu	lus Geospiza scandens	s Geospiza fortis	Cactospiza pallida
d) Geospiza fuliginosa	Geospiza scandens	Platyspiza crassiorstrio	Camargynchus psittacula

- Movement to genes through gametes or movement of individuals in (immigration) 49. and out (emigration) of a population is referred to as
 - a) Gene chart
- b) Gene flow
- c) Genetic drift
- d) Sewall Wright ffect

- Select Hardy Weinberg equation 50.
 - a) $2(p+q)^2 = p^2 + 4pq + q^2$

b) $P^2+q^2=2p+pq+q^2$ d) $(p+q)^2=p^2+2pq+q^2$

c) $(p+q)^2=p+2pq+q^2$

- Origin of first mammals occurred 51.
 - a) 500 million years

b) 220 million years

c)1600 million years

d) Over 1600 million years

	www.Padasalal.Net -	No.1 Educational Website in	1 amiinadu
52.	Australopithecus		
	(i) Lived in East African gras	sland (ii) A	bout 5 million years ago
	(iii) He was called as Ausstrali		e was about 2.5 meters tall
	a) (i), (ii) and (iv)	b) (ii), (iii) a	nd (iv)
	c) (i), (iii) and (iv)	d) (i), (ii) an	d (iii)
53.	The correct sequence in the evo	olution of modern man	
a)	Dryopithecus - Australopithec	us - Homo habilis - H	omo erectus - Homo sapiens
b)	Australopithecus - Dryopithecu	us - Homo habilis - H	omo erectus - Homo sapiens
c)	Homo habilis - Dryopithect	us - Australopithecus - H	Iomo erectus - Homo sapiens
d)	Dryopithecus - Homo habil	lis - Australopithecus - H	omo erectus 4 Homo sapiens
54.	Match the column I and II abo	out Ear and years in million	. 2
	COLUMN I	COLUMN II	
	A) Paleozoic	(i) 100 – 1	
	B) Mesozoic	(ii) 180 – 125	
	C) Cenozoic	(iii) 510 - 205	
	a) A-(iii) B-(ii) C-(i)	b) A-(i)	B-(ii) C-(iii)
	c) A-(ii) B-(i) C-(iii)	d) A-(ii)	B-(i) C-(ii)
55.	Who proposed the Germplasm	theory?	
	a) Darwin b) August V	Weismann c) Lamarck	d) Alfred Wallace
56.	Which period was called "Age	of fishes"?	
	a) Permian b) Triassic	Devonian	d) Ordovician
57.	The correct order in Era is		
	a) Palaeozoic Archaeozoic	- Coenozoic	
	b) Archaeozoic Palaeozoic-I	Proterozoic	
	c) Palaeozoic Mesozoic -	Coenozoic	

d) Mesozoic ---- Archaeozoic ---- Proterozoic Which one of the following options gives one correct example each of convergent evolution and divergent evolution?

CONVERGENT EVOLUTION	DIVERGENT EVOLUTION
(a) Bones of forelimbs of vertebrates	Wings of butterfly and birds
(b) Thorns of Bougainvillia and tendrils of curbita	Eyes of Octopus and mammals
(c) Eyes of octopus and mammals	Bones of forelimpbs of vertebrates
(d) Thorns of Bougainvillia & tendrills of curbita	Wings of butterflies and birds

CONVERGENT EVOLUTION	DIVERGENT EVECTION
(a) Bones of forelimbs of vertebrates	Wings of butterfly and birds
(b) Thorns of Bougainvillia and tendrils of curbita	Eyes of Octopus and mammals
(c) Eyes of octopus and mammals	Bones of forelimpbs of vertebrates
(d) Thorns of Bougainvillia & tendrills of curbita	Wings of butterflies and birds
50 Modern man belongs to which period?	

Modern man belongs to which period?

a) Quaternary b) Cretaceous

c) Silurian

d) Cambrian

The Neanderthal man had the brain capacity of

a) 650 – 800cc

b) 1200cc

c) 900cc

d) 1400cc

ALL THE BEST

STD:	XII BIO - Z	OOLOG	GY	HUM	IAN HE	ALT	H AND One mark	DISEA	SES		AARKS: 60 IME : 45 Min
1.	Hum	an Hea	lth is								
	(i) In creases longevity									4)	
	(ii) Reduces infant and adult mortality										
	(iii) Personal hygiene, regular exercise and balanced diet- very i								import		
	(iv) Merely presents of disease										
_	a) (i) (ii) and (iii) (b) (i) (ii) and (iv) (c) (i) (iii) and (iv) ((d) (ii)	(iii) and (iv)	
2.	Matc	Match the following the infectious agent to and disease								2/6	
		COLUMN - I					COLUN				
		A Bacteria					Kala-aza				
	-	B Viral					(ii) Candidiasis				
		C Fungal				(iii) Mumps					
	D	Proto		(())		Diphthe				(-
	a)	(D)	(C)	(B)	(A)		b)	(C)	(B)	(A)	(D)
2	c)	(B)	(A)	(D)	(C)		d)	(A)	(B)	(C)	(D)
3.	Which of the following is degenerative diseases? (a) Arthritis (b) Heart attack (c) Stroke (d) All of the following is degenerative diseases?								(d) All of the		
4.	` '			,	o) neart	attaci		(c) S	поке		(d) All of the
4.			ya beloi	_	h) Fung	21		(c) Pt	otozoai	n	(d) Bacterial
5.	(a) Viral (b) Fungal (c) Protozoan Find out the bacterial diseases								11	(d) Dacterial	
3.	(a) Dysentery, cholera, typhoid, pneumonia										
	(b) Dysentery, diphtheria, mumps, measles										
	(c) Chickunganya, common, cold, pneumonia,										
	(d)Athlete's food, candidiasis, dysentery										
6.	` /		_				uman bei	ngs			
	COLUMN - I					COLUMN - II					
	A	Tube	rculosis	S	(i) C	oryne	bacteriui	m disph	therie		
	В	Tetar	nus		(ii) C	lostri	dium				
	C	Diph	theria		(iii) N	Mycol	oacteriun	n tuberc	ulosis		
	D	Chol	era		(iv) V	/ibrio	cholerae				
	a) //	(iv)	(iii)	(ii)	(i)		b)	(iii)	(iv)	(ii)	(i)
	C)	(iii)	(ii)	(i)	(iv)		d)	(i)	(ii)	(iii)	(iv)
7.		gellosis									
	i) Bacillary dysentery										
	ii) It is transmitted food and water contaminated by faeces										
	iii) It site of infection larynx skin and nasaliv) Causative agent is shigells species										
			_	_	ens spec	nes		(b)	G) (G)	and Gr)
	(a) (i) (ii) and (iii) (c) (i) (ii) and (iv)						(b) (i) (ii) and (iv) (d) (ii) (iii) and (iv)				
	(c)	\mathbf{n}	ana (17 <i>)</i>	'				(u) (ш) (Ш)	and (1	v /

8. Read the following assertion and reason, find the corret answer.

Assertion (A): Measles are rubella virus (RNA Virus)

Reason (R): Mode of infection by droplet infection and site of infection skin and respiratory track

- a) A and R are true, R is the correct explanation of A
- b) A and R are true, R is not the correct explanation of A
- c) A is true, R is false
- d) Both A and R are false
- 9. Break bone fever causes
 - a) Dengu fever
- b) Chikungunaya c) Poliomyelitis
- d) Comman cold

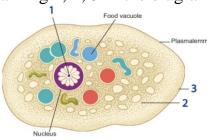
- 10. African sleeping sickenss is caused by
 - a) Entamoeba histolytica

b) Trypanosome species

c) Both (a) and (b)

d) None

11. Identify the marking 1, 2, 3 in the diagram given below and select the correct option



1	2	3
a) Ectoplasm	Endoplasm	Endosoma
b) Ectoplasm	Endosoma	Endoplasm
c) Endosoma	Ectoplasm	Plasmalemma
d) Endosoma	Endoplasm	Ectoplasm

- 12. Kala azar is transmitted by
 - a) House flies
- b) Tsetse flies
- c) Anopheles
- d) Sand flies

- 13. Malaria is causes by
 - a) Plasmodium
- b) Amoebiasis
- c) HIV
- d) Rhino viruses

- 14. Schuffners granuces
 - a) Yellowish brown pigment

b) White – brown pigment

c) Greenish – brown pigment

- d) White-green pigment
- 15. Match column I and ii types of malarias and causative agent.

COLUMN-I (Types of Malaria)	CLOUMN-II (Causative agent)
Vivax malaria	P. falciparum
Quartan malaria	P. ovale
Mild tertian malaria	P.malaria
Maligant tertian	P.vivax

a) (iv) (iii) (ii) (i)

b) (i) (ii) (iii) (iv)

c) (iv) (iii) (i) (ii)

d) (iv) (iii) (i) (ii)

16.	Which fish fee	ed on mosquito larvae?			
	(a) Catla	(b) Gambusia	(c) Both (a) and	d (b) (d	d) None
17.	Which disease	was recognized as a c	ausative agentt o	of human dis	seases much earlier
	than bacteria	_			
	a) Fungal disea	ase b) Viral diseases	c) Helminthic o	disease d) I	Protozooms disease
18.		icoides commonly call		,	
10.	(a) Tape worm	•		orm ((d) Earth worm
19.	` '	v statement True / Fals		((a) Zariii (oriii
17.		c paradise and exhibits		çm	
		the intestinal of endparage			
	•	nitted through ingestion			
	food and v		i of chioryonate	u eggs moug	gir containinated
		playing in contaminated	d coile are also n	rone to have	a chance of
			i sons are also p	Tone to have	e a chance of
	_	gg from hand to mouth.	(***)	(3-1)	
	(i)	(ii)	(iii)	(iv) False	
	a) Ture	False	False		
	b) Ture	Ture	False	False	
	c) Ture	Ture	Ture	False	
20	d) Ture	Ture	Ture	Ture	
20.	Wuchereria ba				1) 37
•	a) Oviparous	b) Viviparous	c) Ovov	nparous	d) None
21.	Immunology				
		tects an individual from			
		all the mechanisms use		-	from
		ntal agents that are for			
		ll ability of body to figl		-	
	iv) Immune sy	stem function efficience	cy in an individu	ıal, it leads t	o infection causing
	diseas.				
	a) (i) (ii) and (i	iii) b) (i) (iii) and (iv)	c) (i) (ii) and (i	v) d) (ii) ((iii) and (iv)
22.	Innate immuni	ty is			
	a) Natural imn	nunity	b) Non s	pecific	
	c) Both (a) and	(b)	d) Acqui	red immuni	ty
23.	The lack of im	munity is known as			
	a) Susceptibili	ty b) Specility	c)	Ability	d) None
24.	Assertion (A)	: Skin		-	
	Reason (R)	: Prevents the entry o	f microbes		
		A and R are true, R is		lanation of <i>A</i>	A
		A and R are true, R is	-		
		A is true, R is false			
	ŕ				
	•	Both A and R are fals	se		
25.		antibacterial agent?		,	
	a) Infernos	b) Lysozyme	c) Both ((a) and (b)	d) None

Match the Column I with Column II and select the correct option from the given 26.

C			C	OLUN	AN II				
A. Anato	A. Anatomical barriers					nin			
B. Physi	B. Physiological barriers					ytes			
C. Phago	C. Phagocytic barriers				Tempe	rature			
D. Inflammatory barriers				4.	Mucus	memb	rane		
a) (iv) (iii)	(ii)	(i)		b)	(iii)	(iv)	(ii)	<u>(i)</u>
c) (iv) (i)	(ii)	(iii)		d)	(ii)	(i)	(iv)	(iii

- Pathogens are destroyed by cells without production antibodies, then it is known as 27. a) Cell Mediated Immunity b) Cell Mediated Response
 - c) Antibody mediated immunity

Antibody production is a characteristic feature only in d) Prochorades

- a) Invertebrates b) Vertebrates c) Urochorades
- Which immunity is acquired without the activation of person's immune response, 29. andtherefore there is no memory?
 - a) Active immunity

b) Passive immunity

d) Both (a) and (b)

c) Humoral immunity

- d) Andibody immunity
- Both B-cells and T-cells of immune system are produced in 30.
- b) Lymph nodes
- c) Bone marrow
- d) Thymus
- 31. The organ involved in the origin, maturation and proliferation of lymphocytes are called as.
 - a) Lymphoid system
- b) Lymphoid organ
- c) Immunity d) Immune response

32. **Thymus**

28.

- i) Flant and bilobed organ located behind the sternum, above the heart.
- ii) Two lobes each lobule are differentiated into outer cortex and inner medulla
- iii) Outer cortex, is densely packed with immature B cells called thymocytes
- iv) Main secretions is the horomone thymosin, stimulates the T cells to become mature and immunocometent.
- a) (i) (ii) and (iii) b) (ii) (iii) and (iv)

- c) (i) (ii) and (iv) d) (i) (iii) and (iv)
- Read the given statements and select the correct options. 33.

Statement 1: Haematopoietic cells

Statement 2: Potential to multiply through cell division and remain as stem cells or different kinds of blood cells.

- a) Both statement 1 and 2 are correct and statement 2 is correct explanation statement 1
- b) Both statement 1 and 2 are correct but statement 2 is not the correct explanation statement1
- c) Statement 1 is correct but statement 2 is in correct.
- d) Both statement 1 and 2 are incorrect
- How many number of red blood cells (per μ) in human adult ? 34.
 - a) 42,00,000 to 62,00,000

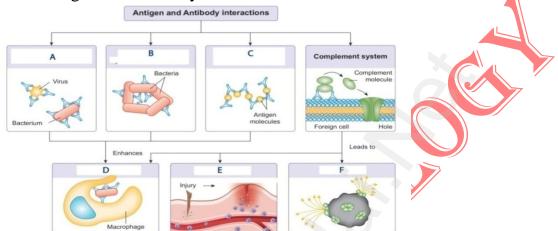
b) 42,00,000 to 62,00,000

c) 52,00,000 to 62,00,000

d) 42,00,000 to 62,00,000

- 35. Lymph is
 - i) Clear transparent, colorless and mobile
 - ii) Extra cellular fluid, connective tissue
 - iii) It will be trapped by the phagocyte cells follicular cells
 - iv) Not percolates through brought in by the lymph node
 - a) (i) (ii) and (iii) b) (ii) (iii) and (iv) c) (i) (ii) and (iv) d) (i) (iii) and (iv)

36. Find out the antigen and antibody interaction A, B, C, D and E.



	A	В	C	D	E
a)	Agglutination	Precipitation A	Phagocytosis	Inflammation	Neutralization
b)	Neutralization	Agglutination	Precipitation	Phagocytosis	Inflammation
c)	Neutralization	Agglutination	Phagocytosis	Precipitation	Inflammation
d)	Neutralization	Agglutination	Phagocytosis	Inflammation	Phagocytosis

37. Which is not correct pair?

MALT - Lymphoid tissue in Urino-genital tracks
GALT - Protect the body from invasion in the gut
BALT - Found in respiratory mucosa
Tonsils Tissue masses located at heart

38. Match the column I and column II about the white blood cells by adult human.

	COL	UMN	I	C	OLUMN II					
1.	Lym	phocy	tes	A.	2000 - 7000					
2.	Neu	rophil	ls	B.	40 - 5000					
3.	3. Basophils		C.	1500-4000						
4.	Eosi	nophil	S	D.	50-100					
a)//	D	С	В	A		b)	C	D	A	В
c)	C	A	D	В		d)	C	A	В	D

- 39. Helper T cells releases a chemical called as
 - a) Helper T cells
- b) Cytokine
- c) Killer cell
- d) Both (a) and (c)
- 40. Who was experiment revealed the basic structure of the immunoglobulin?
 - a) James Watson and Francis Crick

b) Proter and Edelman

c) Andrew Fire and Craig Mellow

d) Dr Edward Jenner

41.	Assertion (A): Antigen		
	Reason (R	: Molecule with reacts	with antibodies.	
		a) A and R are true, R is t	the correct explanation of	of A
		b) A and R are true, R is a	not the correct explanati	on of A
		c) A is true, R is false		
		d) Both A and R are false		
42.	Which anti	gen-binding site and is a pa	art of antibody which re	ecognized & binds to
	antigen?			41
	a) Epitope	b) Paratope	c) Haptens	d) All the above
43.	Immunoglo	obin found in serum (new bo	orn) body is	
	a) IgG	b) IgA	c) IgM	d) IgE
44.	Macrophag	ges are also known as		
	a) Phagocyt	tes b) B-cells	c) NK cells	d) Tumour cells
45.	Molecular v	weight of L chain (light)		
	a) 25,000 D	, ,	c) 214 Da	d) 450 Da
46.		ns of immunoglobulin are		
		ation b) Precipitation of	_	d) All the above
47.		n between particulate antige		•
	a) Precipiting		b) Agglutinaion re	eaction
	c) Opsonisa	A I	d) Neutralization	
48.		biological preparation that p	_	<u> </u>
	-	isease and resembles a disea		
	a) Vaccine	b) Chemotherophy	c) Durgs	d) Antibioties
49.	DPT			45 4.41 .4 . 4
7 0	a) Diphtheri		c) Tetanus	d) All the above
50.		red first vaccine for small po		1/D F1 11
~ 1	*	steur b) Dr. Albert Sabin	,	l)Dr.Edward Jenner
51.	Identify A,	B, C and D in the given dia	gram of HIV virus.	
			ipid bilayer	
		M	latrix protein	
			A 3	
			wo single-stranded NAs	
		700000000000000000000000000000000000000		
	Á	В	C	D
	a) gp 120	gp41	Reverse transcriptase	Capsid
	b) gp41	gp120	Revere transcriptase	Capsid
	c) Capsid	Transcriptase	gp120	gp41
	d) Capsid	Reverse transcriptase	gp41	gp120

c) HPV virus

d) HBV virus

The human immunodeficiency virus belongs to the genus

b) Lentivirus

52.

a) Rabeto virus

53.		rmatory test of HIV			
		estern blot b) ELISA		c) Both (a) and (b)	, , , , , , , , , , , , , , , , , , ,
54.	Asser			y called contact inhibition	on, which inhibits
	_	uncontrolled	•		
	Reas			nis property, as a result,	
				g rise to mass of tissues	called tumours.
				orrect explanation of A	
		b) A and R are	true, R is not the	he correct explanation of	of A
		c) A is true, R	is false		
		d) Both A and	R are false		
55.	Metas	stasis is			
		pid division in cancer of			of cancer cells
		reed of cancer cells to		d) All the above	
56.				peer) pressure and many	youngsters are
	-	d into experimenting v	_		
	a) Ad	,	•		Adolescence
57.				ogical and social chang	
- 0	a) Ad	· · · · · · · · · · · · · · · · · · ·	•		Adolescence
58.	Match	the column I and column			
		COLUMN I	- 1	OLUMN II	
	p	Stimulants	, , , , , , , , , , , , , , , , , , ,	lidine, LSD	
	q	Depressants	(ii) Bhang,		
	r	Narcotic	(iii) Opium,	_	
	S	Cannabis		rates, Transquilizers	
	t	Hallucinogens		amines, Cocaine	····
				b) $p - (iv), q - (i), r - (iv)$	
50		ich one is obtained by		p - (v), q - (iv), r - (iv)	111), $S - (1)$, $t - (11)$
59.					d) Alaahal
60.	,		Cocaine	c) Charas ptly stopped he (or) she	d) Alcohol
00.		Vith symptoms	alconor is abru	b) Withdrawal sympt	-
		o symptoms		d) None	OHIS
	C) I	o symptoms		d) None	
			ALL THE B	BEST	
				, LI, J	

BEST WAY(ZOOLOGY)

MARKS: 50

TIME: 45 Mins

STD: XII MICROBES IN HUMAN WELFARE

SUB: BIO - ZOOLOGY (Chapter – 8: One mark Test)

1.	Whi	ch of the following are benefici	al and conti	ribute to hui	nan we	elfare?		
		(icroorganisms b) Bacter	ria o	c) Virus		d) Bo	th (b)	and (c)
2.		ic acid bacteria (LAB)	_				4	\
	-	actobacillus acidophilus		b) Lactobac		ctis		\\
_		rptococcus		d) All the al		. •	A\ .:11	
3		ch bacteria grows in milk and c	onvert into	card thereby	y diges	ting th	e milk	protein
	casei		1	-) I4-1	:11 1	. Lie		7
		actobacillus acidophilus		b) Lactobac		CUS		
4		reptococcus flavour in yogurt is due to	(d) All the ab	oove			
4		cetaldehyde b) Acetaamine	(c) Rennet			d) Ce	llulose
5.	-	ch be used to separate milk into			nakino	2	u) Ce	Hulose
<i>J</i> .		ectinase b) Protease		c) Rennet	diktig	·	d) Ce	llulase
6.	,	ch are compounds in food (fibe			⊭th or a	ctivity	,	
.		o organisms?	15) that mae		11 01 0	cuvicy	or our	0110101
		rebiotics b) Probiotics	c) Both	(a) and (b)		d) No	ne	
7.		ch the column-I and Column –I				,		
		COLUMN – I			COLUI	MN –I	I	
	A	Streptococcus thermophilus	i) Large h	oles in swis	s chee	se proc	luction	of
				nount Co ₂				
	В	Propionibacterium	ii) Coagu	late the mill	k prote	in and	conver	t the lactose
	C	Saccharomyces cervisiae	iii) Dougl	n used idlis	and do	sas fer	mantat	ion
	D	Leuconostoc mesenteroides	iv) Dough	n used in bro	ead ma	king fe	ermenta	ation
	a)	(iv) (iii) (ii) (ii)		b)	(iii)	(ii)	(iv)	(i)
	c)	(ii) (i) (iv) (iii)		d)	(ii)	(i)	(iii)	(iv)
8.		e holes in swiss cheese is due to	o the produc					
		euconostoc mesenteroides			-		ım she	
0		accharomyes cerevisiae	C : 11		_		nermop	
9.		lough used in the preparation of	f idlis and d			•		
		euconostoc mesenteroides			-		ım she	
10		accharomyes cerevisiae		a) Sti	eptoco	ccus tr	nermop	onilus
10.		(er's yeast		b) Dr	nionih	antorio	ım cho	rmonii
		uconostoc mesenteroides accharumyes cerevisia			-		ım she nermop	
11.	77	ement 1: Yogurt.		u) Su	ерюсо	ccus ii	етпор	illius
11.		ement 2 : Produced by bacteria	1 fermentati	on of milk	and lac	tic aci	4	
		Statement I in correct and II wro		on or mink	u 1aC	tic aci		
		Statement I and II wrong	· ·· ·5					
		Statement I and II correct						
		tatement I is wrong and II is co	rrect					

12.	Single Cell Protei	n (SCP) refe	rs to edible u	anicellular microorga	anisms like
	a) Spiruling	b) Prebioti	ics	c) Probiotics	d) All the above
13.	Amtibiotic means				
	a) Against life	b) Anti aga	ainst life	c) Pre life	d) Pro life
14.	Which is an applie	ed science de	eals with the	biochemical process	s of fermentation and its
	practical uses?				
	a) Microbiology	b) Zy	mology	c) Oenology	d) Pathamalogy
15.	Who first used the	e term antibio	otic?		
	a) Alexander Flei	ming b) S	Selman Wak	sman c) Ernst Chain	d)Howard Florey
16.	Which is referred	to as the "Q	ueen of drug	s"?	
	a) Streptomycin	b) T	Tetracycline	c) Chlortetracyc	cline d) Penicillin
17.	Given below state	ment, Find	out which or	ne is True / False	
	(i) Broad spectrum	n antibiotic a	ct against a	wide range of diseas	e-causing bacteria.
	(ii) Narrow-spectr	um antibioti	c are active	against a selected gro	oup of antibiotics to kill
	micro organis	sms.			
	(iii) Antibiotic is 1	not the prope	rty of antibi	otics to kill microorg	gan <mark>is</mark> ms.
	(iv) Tetracycline i	s a broad spe	ectrum viral	antibiotic that inhibi	ts microbial protein
	synthesis.				
	a) True	False	False	True	
	b) False	False	True	True	
	c) True	True	False	False	
	d) False	True	True	False	
18.	Assertion (A): A	ntibiosis			
	Reason (R): P	roperty of an	tibiotics to l	kill micro organisms	
	a) A	and R are tr	ue, R is the	correct explanation of	of A
	b) A	and Rare to	rue, R is not	the correct explanati	on of A
		is true, R is			
	,	Both A and R			
19.	Streptomyces gris		7		
1).	a) Saccharomyce		ly against	h) Mycobac	terium tuberculosis
	c) Streptococus the		-	· •	stoc mesenteroided
20.				ferred over broad spe	
20.	i) Narrow spectr		-	refred over broad spe	ettam antiolotics:
	ii) Accurately tar		•	roanisms	
	iii) Less likely to			1 Sumsms	
	iv) Fight against t				
	a) (i) (ii) and (iii)			c) (i) (iii) and (iv	d) (ii) (iii) and (iv)
21.		. , , , ,		without distillation	·// (/ · (-·/
			-		tation and distillation.
	(a) Both statemer	•		,	
	(b) Both statemen				
	• •			statement 2 is the co	rrect explanation of
	statement1				•
	(d) Statements 1	is correct, sta	atement 2 is	incorrect.	
		,			

- 22 Who was the first to use the term "antibiotic"? a) Alexander Fleming b) Selman Wasksman c) Howard Florey d) Ernst Chain Study of wine and wine making 23. a) Zymology b) Oenology c) Microbiology d) Entamology Match the correct options 24. 1. Beer a. 4-6 % alcohol 2. Wine b. 35-50% alcohol 3. Wine Cooler c. 3-5% alcohol 4. Distilled spirits d. 9-14% alcohol 2-c, 3-b, 4-ab) 2 - d, 3 - a, 4 1-d, 1-c. a) 2-a, 3-c, 4-d1-b, d) 1-b, c) 25. Pathaneer (i) In some part of South India a traditional drink (ii) Obtained from fermenting sap of palms and coconut trees (iii) It is refreshing drink, which in boiling produces jaggery (or) palm sugar (iv) Alter 24 hours pathaneer becomes unpalatable and it is used for the production of vinegar (a) (i) (ii) and (iii) (b) (i) (ii) and (iv) (c) (ii) (iii) and (iv) (d) (i) (iii) and (iv) Which one is called as industrial alcohol? 26. (a) Biodiesel (b) Gasoline (c) Ethanol (d) All the above The principal substrates for the commercial production of industrial alcohol include 27. (a) Molasses (c) Wood wastes (d) All the above (b) Potatoes 28. Fill the fermentation process. $C_6H_{12}O_6 \longrightarrow 2C_2H_5OH + 2CO_2$ (b) Yeast (c) E.coli (a) Bacteria (d) Protozovan 29. **Biodiesel** (i) Made from vegetable oil, fat or greases (ii) Diesel engines without altering the engine (iii) The Government of India approved the National Policy on bio fuels in 10th August (iv) Non-roxic, biodefradable and produces lower level of air pollutants a) (i) (ii) and (iii) b) (i) (ii) and (iv) c) (i) (iii) and (iv) d) (i) (ii) (iii) and (iv) 30.
- Match the column I and column II production of organic and acid by microbes.

	COLUMN	- I	COLUMN - II					
A	Citric acid		(i) Rhizopus oryzae					
В	Acetic acid		(ii)	(ii) Clostridium butyricum				
C	Fumaric acid		(iii) Aspergillus niger					
D Butyric acid			(iv) Lactobacillus					
E	Lactic acid		(v) Acetobacter aceti					
a)	a-(ii)	B-(iv)	C-(v)	D-(iii)	E-(i)			
b)	a-(iii)	B-(v)	C-(iv)	D-(ii)	E-(i)			
c)	a-(iii)	B-(v)	C-(i)	D-(ii)	E-(iv)			
d)	a-(iv)	B-(v)	C-(iii)	D-(i)	E-(iv)			

31. Which is used as an immunosuppressant in organ transplantation?

a) Rennet

b) Satains

c) Insulin

d) Cyclosporin A

- 32. Which of the following is produced by the bacterium streptococcus?
- a) Streptonase b) Streptokinase
- b) Streptokinase c) Both (a) and (b)
- d) None

- 33. Whitch bacteria are used as "clo tbuster"?
 - a) Streptococcus
- b) Streptococci
- c) Both (a) and (b)
- d) Cyclosporin A

- 34. Cyclosporin A produced by
 - a) Saccharomyces cerevisiae

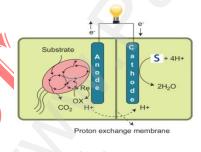
- b) Trichoderma polysporum
- c) Mylobacterium tuberculosis
- d) Streptomyus aureofacines
- 35. **Statement 1:** Cyclosporin A used for its anti inflammatory, antit fungal and anti parasitic.
 - **Statement 2:** Statins produced by the yeast have been used to lower blood cholesterol levels
 - a) Both statement 1 and 2 are correct and statement 2 is the correct explantation of statement
 - b) Both statement 1 and 2 are correct but statement 2 is not correct explanation of statement 1
 - c) Both statement 1 and 2 are correct
 - d) Both statement 1 and 2 are incorrect
- 36. Which one is not correct pair?

(a)	Cyclosporin A	_	Trichoderma polysporum
(b)	Statins	_	Monascus Purpureus
(c)	Human insulin	_	Saccharomyces cerevisiae
(d)	Clost buster	_	Streptomyces griseus

- 37. Which is bio-electrochemical system that drives an electric current by using bacteria and mimicking bacterial interaction found in nature?
 - (a) Nation river conservation plant
- (b) Microbial cell

(c) Single cell protein

- (d) All the above
- 38. In given diagram, which gases enter to cathode fine the 'S'?



a) CO₂

- b) O₂
- c) O_3
- d) NO₂

39. Biogase

- (i) Produced under anaerobic condition, when organic materials are converted through microbiological reactions
- (ii) Primarily consists of methane (63 Percent) along with CO₂ and hydrogen.
- (iii) Biogas is devoid of small and burns with a blue flame with out smoke.
- (iv) A bio electrochemical system that drives an electric current by using current by using bacteria and mimicking bacterial interaction found in nature.
- a) (i) (ii) and (iii)
- b) (i) (ii) and (iv)
- c) (i) (iii) and (iv)
- d) (ii) (iii) and (iv)

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40.	Methane producing	g bacteria are called	as				
	a) Organotrophus	b) Methanogenus	c) Methanotroph	d) Eubacter	ia		
41.	In biogas plant, and	aerobic digestion is o	carried out in an a	ir tight cylindrical tan	ık known		
	a) Digester	b) Booster	c) Cooking	d) All the a	bove		
42.	The technology of	biogas production w	as developed in I	ndia through efforts o	f.		
	a) KVK	b) IARI	c) Both (a) and (b) d) WHO			
43.	Which method use	of naturally occurring	ng (or) genetically	engineered microorg	ganisms to		
	reduce or degrade	pollutants?					
	a) Biofertiliser	b) Bioremediation	c) Organic	d) Farming			
44.		ered microorganism					
	a) Alexander Flem		·	na Mohan Chakrabart	y		
	c)Selman Waksma		d) Ernst C		7		
45.	•	-	-	alic acid and ethylene			
	a) PETase	b) MHETase	c) Both (a) and (
46.	-	• •	•	of halogenated organic	c		
	-	ng trichloroethylene	•				
	a) Dechloromonas			ochaete chrysoporium	1		
	c) Nitrosomons eur	-		monas putida			
47.				rojects involving large	e		
	-			trinitrotoluene, etc.,?			
	a) Dechloromonas	A)		tiopsis microspora			
40	c) Phanerochaete c	-	d) Nitrosomonas	<u> </u>			
48.		wing microorganism	is used for produ	ction of citric acid in			
	industries?	lania	h) Daniail	lium aiteinum			
	a) Lactobacillus bu			lium citrinum			
49.	c) Aspergillus nige			us nigricans product produced by	thom?		
47.	a) Acetobacter ace			product produced by	mem:		
	b) Methanobacterit		ic acid				
	c) Penicilium notat						
	c) Penicilium notatum - Acetic acid d) Saccharomyces cerevisiae - Ethanol						
50.		d in anaerobic sludge					
50.		n and hydrogen sulp					
		ide, nitrogen and me					
		gen sulphide & CO ₂	viiwiiv.				
		de, methane and sul	ohur dioxide				
		, :					

ALL THE BEST

BEST WAY (ZOOLOGY)

APPLICATIONS OF BIOTECHNOLOGY

SUB: BIO - ZOOLOGY (Chapter – 9: One mark Test)

- 1. Which involves extracting a gene from one organism, of the same or another species?
 - a) Genetic engineering

b) Gene therapy

c) Biotechnology

- d) Recombinant DNA
- 2. Which cells of Islets of Langerhans in the pancreas is synthesized by human insulin?
 - a) ∝ Cells
- b) β-cells
- c) Both (a) and (b)
- d) u Cells

MARKS: 50

TIME: 45 Mins

- 3. Polypeptide chains A has
 - a) Two polypeptide chain

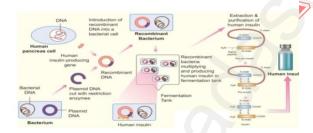
b) Three polypeptide chain d) Poly polypeptide chain

- c) Four polypeptide chain
- 4. Insulin

STD: XII

- i) Controls the level of glucose in blood.
- ii) It facilitates the cellular uptake and utilization of glucose.
- iii) Deficiency of insulin leads to diabetes mellitus-characterized by increased blood glucose level
- iv) A non continuous program of insulin dependence is required to treat this deficiency.
- a) (i) (ii) and (iii)
- b) (i) (iii) and (iv)
- c) (i) (ii) and (iv)
- d) (ii) (iii) and (iv)

5. What does the given diagram represent?



- a) Production of human growth hormone
- b) Production of recombinant HB vaccine
- c) Production of human insulin
- d) Human Blood-clothing factor VIII
- 6. Which animals of plasmids first involved the insertion of the human insulin gene?
 - a) Virus

- b) Bactria
- c) E. Coli

- d) Yeast
- 7. In 1986 human insulin was marketed under the trade name is
 - a) Recombivax
- b) Engerix B
- c) Both (a) and (b)
- d) Humulin

- 8. From the given statements, select the suitable answer
 - Statement (A): The structure of animal insulin is different from human insulin.
 - **Statement (B):** It caused allergic reactions to some diabetic patients.
 - a) Both the statement A and B are correct
 - b) Both the statement A and B are wrong
 - c) Statement A is correct and statement B is wrong
 - d) Statement A is wrong and statement B is correct
- 9. First transgenic cow Rosie produced by
 - a) 1987
- b) 1997

c) 1999

d) 2000

10.	The human protein richly	•		1) T
11	a) Alpha loctalbumin	b) Serum albumin	c) Casein	d) Lactoferrin
11.	Interferon are	1		
	i) Proteinaceous, antivira			
	ii) Species specific subst			
	iii) It stimulates the RNA	-		
	iv) Produced by mammal			
	a) (i) (ii) and (iii)		c) (i) (ii) and (iv) d) (ii) (iii) and (iv)
12.	Interferons were discover	ed by		
	a) Best and Banding		b) Alexander Fleming	
	c) Anandha Mohan Charl	krabarty	d) Alick Isaac and Jea	n Lindeman
13.	Which vaccines, that uses	s components of a pa	thogenic organism rath	er than the whole
	organism?			
	a) Subunit recombinant v	accines	b) Attenuated recombine	inant vaccines
	c) DNA vaccines		d) All the above	
14.	Assertion (A): Attenuate	d recombinant vacci	nes	
	Reason (R): Genetical	ly modified pathoge	nic organisms that are i	made non
		c and are used as va		
	a) A and R	are true, R is the cor	rect explanation of A	
		· ·	correct explanation of	A
	c) A is true,			
	,	and R are false		
15.	Which process involves the		al gene into a person's	s cells that carries
13.	one or more mutant allele		iai gene, into a person s	s cens mai carries
	a) Gene therapy	,s:	b) Biotechnology	
	c) Recombinant DNA		d) Genetic engineerin	· G
16.	The main thrust of gene t	parany has been dire		•
10.	a) Cystic fibrosis b)			d) Both (a) and (b)
17.	The genetic detect adenos	· ·	_	
1/.	a) Introducing bone marro			
	embryonic stages.	ow cens producing (ADA) into the cen at a	ir earry
	b) Administratin adenosir	na darminaca activate	ore	
	c) Periodic infusion of ge			unctional ADA
	cDNA.	helically engineered	Tymphocytes naving ru	ilicuoliai ADA,
	d) Enzyme replacement the	horony		
18.	The first clinical gene the	- ·		
10.			n ` a\ Dagt	d) Donting
10	a) Early Erery	b) French Anderson	•	d) Banting
19.	ADA deficiency patients	_	=	d) Dontituio collo
20	a) B cells	b) T cells	•	d) Dentitric cells
20.	In children ADA deficien			
21	a) Thymus		c) Lymph node	
21.	Which cells maintain their	r undifferentiated sta	ate even after undergon	ng numerous
	mitotic divisions?	1) 0 11) C 11	1\ \ \ 1
	a) Stem cell	b) Somatic cell	c) Germ cell	d) Nerve cell

22.	Stem cell banking							
	i) Extraction, processing and stor	age of stem	cells.					
	ii) They may be used for treatment in the future.							
	iii) Stored in specifically for use b	y the indivi	dual a	nd collected b	y banking costs are			
	paid.			•				
	iv) Cells are taken from embryo.							
	•	iii) and (iv)	c) (i)	(ii) and (iii)	d) (i) (ii) and (iv)			
23.	ES cells are	m) and (iv)	C) (1)	(II) and (III)	a) (1) (11) and (11)			
23.	a) Mortal b) Imm	oral		c) Mobil	d) Non mobile			
24.	Which cell is a rich sources of adu			C) WIODII	d) I will intoone			
4.	a) White bone marrow b) Red		***	c) Thymus	d) All the above			
25.	· · · · · · · · · · · · · · · · · · ·			c) Thymus	d) All the above			
23.	ELISA is a biochemical procedure		-	ak Isaaa and I	oon Homing			
	a) Eva Engvall and Peter Perlmani	111		ck Isaac and J	_			
26	c) Best and Banding		,	exander Flemi	ng			
26.	ELISA is a biochemical procedure			21	1) 1001			
07	a) 1961 b) 1971		c) 198		d) 1991			
27.	Match the bellow statement depen	ding up the	_					
	COLUMN I		COLUMN II					
	A. Gene augmentation therapy	43		ced into eggs a	_			
	B. Gene inhibition therapy			herited in late	_			
	C. Somatic cell gene therapy	iii) Insertic	n of th	ne antisense ge	ene which			
		inhibits	the ex	pression.				
	D. Germ line gene therapy iv Insertion of DNA into genome to replace							
		the mis	sing g	ene product.				
	a) (ii) (iii) (iv) (i) b) (iv) (iii)	(ii) (i)	c) (iv)) (ii) (i)	(ii) d) (i) (iii) (iv)(ii)			
28.	During diagnosis the sample suspe	ected to cont	tain the	e antigen is im	mobilized on the			
	surface on an							
	a) ELISA plate b) PCR) Recombin	nant D	NA	d) Gene therapy			
29.	In ELISA test, unreached antibodi	es washed a	way a	nd the substrat	te of the enzyme			
	hydrogen peroxidase is added with	hydrogen peroxidase is added with certain reagents such as						
	a) 4 – Chloronaphthol b) Pero	xidise	c) Per	ntose	d) Reverse			
	transcription							
30.	PCR technique was developed by							
	a) Wilmut b) Cam	pbell	c) Ear	rl Ereky	d) Kary Mullis			
31.	What is the technique called when	•		•	•			
	a) Multiplex – PCR			sted – PCR				
	c) Asymmetric – PCR		d) Reverse transcription – PCR					
32.	Which of the following is not a tru	e option for		-				
	traditional methods?							
	a) Culture		b) An	tigen – antibo	dy reaction			
	c) Biochemical tests		b) Antigen – antibody reactiond) Metabolic tests					
33.	Which one of the following is not	a advantage	,)			
	a) Aids stem cell research			_	ion of proteins			
	c) Can save endangered species			oned animals a	-			
	c, can bare chamigered species	a_j Cr	mod diffillats of	50 1415101				

34.

34.			rst transgenic		nal clo	one	\ D 11		1) 3 (11)
2.5	a) Ros		b) Dai	•			c) Dolly		d) Millie
35.		•	A): Denaturat		1 D.M	A C: 4	. 1	1.,	
	Keaso	on (R)						ured to separa	ite into two
			individua		-	_	-	C A	
							correct expla		
							the correct e	xplanation of	A
			c) A is tru	ie, R is	s false	2			
			d) Both A	and F	R are f	false			
36.		_				s called t	he transgene	and that anin	nals produced
	•		nipulations are						
		ingenes	·		nimals	s c) Gei	netically eng	ineer d) Trans	sgenic animals
37.			iotechnology						
• •		_	c crop b) Bio	fertiliz	zer		c) Humulin	d) All t	he above
38.	Match	1 1t.	~~~						
		D.	COLUMN		(*)	4D 4 1		LUMN - II	
	A		NA Technolo		(i)		eficiency		
	B		ological contro		(ii)	_	n antibody		
	C		ISA is based of	on	(iii)			nethod of diag	gnosis
	D		ne therapy	(;;)	(iv)		ierma		
	•		B - (iii), C -		D				
			B - (iv), C - B - (iv), C - C - C - C - C - C - C - C - C - C		D –				
			B - (iv), C - B - (iii), C - B - (iiii)		D-				
39.			llowing anima	4			ansgenic ani	male?	
<i>J</i> J .	a) Ral		nowing anima	b) Go		7	c) Ra		d) Monkey
40.	,		genic animals	1		r testino	,		d) Wonkey
10.	a) Mo		geme aminas	b) Ra		testing	c) Sh		d) Mice
41.	*	•	statement fin			one is '	· · · · · · · · · · · · · · · · · · ·		,
								•	or treatment of
		sease			-6 6	,		F	
		→	include antito	xins, b	acteri	ial and v	iral vaccines	, blood produ	cts & hormone
		tracts						, 1	
		4.1	may be produ	iced th	rough	h biotech	nology in a	living system	, such as
			anism, plant c		_			<i>C</i> ,	
			often not diff					nolecule drug	s.
	a) T1		True	False		False		· ·	
	b) Ti	rue	False	False		True			
	c) Ti	rue	False	False		False			
	d) T	rue	True	True		False			
42.	The fi	irst clir	nical gene ther	apy w	as do	ne for th	e treatment o	of	
	a) AII	DS	b) Car	ncer			c) Cystic fib	prosis	d) SCID
43.	Who	was the	e first nammal	le (she	ep) cl	lone deve	eloped (DOL	LY) ?	
	a) Ian	Wilmo	ot b) Car	npbell			c) Both (a) a	and (b)	d) Earl Ereky
N. S	EKAR., N	M.Sc., B.	Ed., P.G. Asst., Z	oology,	VEDH	HA VIKASS	HIR.SEC. SCHO	OOL - SALEM. Ce	II : 9965454393.

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44. How many number of udder cells and were unfertilised egg cells were removed from sheep in Ian Wilmut and Campbell? a) 266 c) 288 d) 299 Hungarian agricultural engineers karl Eraky coined the term biotechnology in 45. a) 1981 b) 1918 c) 1999 d) 1919 46. Given diagram in cloning of dolly, find out "Z". a) Blastocyst b) Blastomony c) Blastocoel d) Blastocells Dolly, the sheep was obtained by a technique known as 47. a) Cloning by gene transfer b) Cloning without the help of gametes c) Cloning by tissue culture of somatic cells d) Cloning by nuclear transfer How many amino acids are arranged in the two chains of insulin? 48. a) Chain A has 12 and Chain B has 13 b) Chain A has 21 and Chain B has 30 amino acids c) Chain A has 20 and chain B has 30 amino acids d) Chain A has 12 and chain B has 20 amino acids. ELISA is mainly used for 49. a) Detection of mutations b) Detection of pathogens c) Selecting animals having desired traits d) Selecting plants having desired traits Transgenic animals are those which have 50.

c) Foreign RNA in some of their cells

d) Foreign RNA in all their cells

ALL THE BEST

b) Foreign DNA in all their cells

a) Foreign DNA in some of their cells

BEST WAY(ZOOLOGY)

ORGANISMS AND POPULATIONS

STD: XII TIME: 45 Mins **SUB: BIO-ZOOLOGY** (Chapter – 10 : One mark Test)

- The world 'Ecology' is derived from the Greek term by 1.
 - a) Oikos

b) House

- c) Cology
- d) Logos

MARKS: 60

- Group of individuals of any one kind of organism is called as 2.
 - a) Population
- b) Biotic community
- c) Community
- d) Biome

- Environment are. 3.
 - (i) Variable and dynamic
 - (ii) Temperature changes and light charges
 - (iii) Diurnal and seasons
 - (iv) Growth, distribution, number, behaviour and reproduction

Which of the factors is determined by the different factors present in the environment?

- a) (i) only
- b) (ii) and (iii) only
- c) (i) (ii) and (iv)
- d) All the above

- Community is 4.
 - a) Group of independent, interacting populations of same species
 - b) Group of independent and interacting populations of same species in specific
 - c) Group of independent and interacting populations of different species specific area
 - d) Group of independent and interacting populations of different species
- Statement I: Xerophytic habitat, the camel is able to use water efficiently and 5. effectively for evaporative cooling through their skin and respiratory system.
 - Statment II: They excrete highly concentrated urine and can also with stand dehydration up to 25% of the body weight
 - a) Both the statement A and B are correct
 - b) Both the statement A and B are wrong
 - c) Statement A is correct and statement B is wrong
 - d) Statement A is wrong and statement B is correct
- Match the column I and column II above adaptations of aquatic animals. 6.

		COL	UMN – I	(COLUMN – II		
	A)	Fins		(i)	Floatation		
	B))	Streamlin	ned body	(ii	(ii) Respiration		
	C)	Lateral li	ne system	(ii			
,	D)	Gills		(iv			
	E)	Air sacs		(v) Locomotion		
	a) A – i	iii	B - iv	C - v	D-ii	E - i	
	b) A – i	iv	B - v	C - iii	D-ii	E - i	
	c) A – v	V	B - iv	C - ii	i D – i	E - i	
	d) A -	V	B - iv	C-i	D-iii	E - iii	

7.	Assortion (A) • 1	Crickets and gras	s honnars ara closaly	related insects that live in			
7.	Assertion (A): Crickets and grass hoppers are closely related insects that live in the same habitat.						
	Reason (R): They occupy different ecological niche.						
	a) A and R are true, R is the correct explanation of A						
	, , , , , , , , , , , , , , , , , , ,		R is not the correct ex				
		A is true, R is fals		spanation of 71			
	, , , , , , , , , , , , , , , , , , ,						
8.	· · · · · · · · · · · · · · · · · · ·	Both A and R are	oulation in the habitat	is known as			
0.	a) Habitat	b) Glilds	c) Niche	d) Ecosphere			
9.	<i>'</i>	,	,	hare shorter limbs, ears and			
<i>)</i> .		_		e same species in warmer			
	climates?	s when compared	to the members of th	de sume species in warmer			
	a) Van't Hosf's	rule	b) Bergama	ann's rule			
	c) Allen's rule		d) Jordon's				
10.	Éurythermy		,				
	•	can be an evolut	ionary advantages.				
	•		nermoregulations in o	rg <mark>a</mark> nisms.			
	(iii) Cold eurytl	hermy survival of	f species during light	ages			
	(iv) Eurythermy	y decreses a speci	ies ability to inhabit a	n advantage.			
	(i)	(ii) (ii	i) (iv)				
	a) True	True Fa	lse False				
	b) True	False Tr	rue False				
	c) False		Ise True				
	d) False		rue / True				
11.			organisms have adap	oted methods match by the			
	column I and colu	ımn II	(1)				
	A Cysts		(i) Arctic fishes				
	B Antifreeze	_	(ii) Endamoeba				
	C Hibernatio		(iii) Summer sleep	2			
	D Aestivatio		(iv) Winter sleep				
	a) A – (iv)	B – (iii)	C – (ii)	D – (i)			
	b) A – (ii)	B-(i)	C - (iv)	D – (iii)			
	c) A \ (ii) d) A \ (iii)	B – (iii) B – (iv)	C – (i) C – (i)	D – (iv) D – (ii)			
12.	Light	$\mathbf{D} = (\mathbf{IV})$	C – (I)	D – (n)			
12.		nt and essential ab	viotic factor				
*/	_			nent regulates the survival of			
	cell						
	(iii) The quality	(wavelength or co	olour) the intensity(ac	etual energy in gram calories)			
	•		•	ed significant for organisms.			
		-	ation, migration and r	_			
	a) (i) (ii) and (iii))	b) (i) (ii) aı	nd (iv)			
	c) (i) (iii) and (iv	['])	d) (ii) (iii)	and (iv)			
NC	EKAD MSc BEN D	C Asst Zoology VED	JULIA VIKASS HID SEC SCH	OOL - SVIEW COIL + 006E4E4303			

	ds and mammals attain gr Van't Hosf's rule	-	in colder reg b) Bergaman		armer region.
	Allen's rule		d) Jordon's 1		
		mn II about lig	/		
IVIa	tch the column I and colu		_	115.	
_	COLUMN – I	COLUN			
A	1	(i) Volv			Λ
В	Negative phototaxis		of plants		
C	Positive phototaxis	(iii) Moth			
D	Negative phototaxis	(iv) Sunf		D (')	
-	A - (iv) $B - (iii)$	C – (ii	•	D-(i)	
	A - (iii) $B - (i)$	$\mathbf{C} - (\mathbf{i})$		D - (iv)	
	A - (iii) $B - (i)$	C - (iv)		D – (ii)	
-	A - (ii) $B - (iv)$	C- (iii)	D – (i)	
	1 temperature effects				
	Germination of seeds			wth of roo	ots
	inhabiting micro and macr	_		the above	.1
Ass	sertion (A): Water is heav	ier than air and	imparts great	er buoyan	cy onthe aquation
_	medium	·		1 1	
Re	easons (R): This enables				
	a) A and R are to		_		
	b) A and R are to	rue, R is not the	correct explanation	anation of	A
	c) A is true, R is	false			
	d) Both A and R	are false			
Wł	nich one is determined by		oil particles '	?	
		orosity of soil	_		Soil temperature
,	nd speed is measured with		,	,	1
	-	nemometer	c) Haemoc	ytometer	d) ECG
	midity is measured with a		,	,	,
			c) Haemocyt	ometer	d) Anemomter
	imals are known to modif	• •	,		*
	reasonably short time know	•			
	Acclimatization b) A		e) Migration	d) H	Iibernation
	nich biomes are large com				
	ion?	r			T J
		errestrial	c) Grassland	d) T	`undra
	ich biome is a zone of per		-,	/ -	
	-		c) Grassland	biome d)	Forest biome
	e Taiga is km wid	•		0101110 00)	2 01 000 0101110
	_		c) 1450 – 165	50 d) A	Above 1450
,	nich forest contain no dry		-, 0		
	Evergreen rainforest		b) Seasonal r	ainforest	
	Semi evergreen forest		d) Dry decid		t
~/ L	JULIE C 1 OLGI COLL 101000		w, 11, accidi	WOUND IOION	•

25. Match the column − I and column − II about biome and precipitation ranges.

	BIOME	PRECIPITATION			
A	Tundra biome	(i) 150 – 250mm per year			
В	Taiga biome	(ii) 750 – 1500mm per year			
C	Temperate forest	(iii) 380 – 1000mm per year			
D	Cold deserts	(iv) Less than 250 mm per year			
a) A	A-(ii) $B-(iv)$	C-(i) $D-(iii)$			

- C (i) D - (ii) b) A – (iii) B - (iv)B - (iii)C - (ii)D-(i)c) A - (iv)d) A - (iv)B - (iii)C - (ii)D - (i)
- 26. Alpine biome
 - (i) The alpine zone between timber line and snow zone
 - (ii) Descending order, a sub snow zone immediately below the snow zone
 - (iii) Meadow zone inthe centre & shrub zone which gradually merges into the Timber zone
 - (iv) Forest is a broad term used to describe areas where there are a large number of trees.
 - a) (i) (ii) and (iii)
- b) (i) (ii) and (iv) c) (i) (iii) and (iv)
- d) (ii) (iii) and (iv)
- Which forest contain short dry period in a very wet tropical region. 27.
 - a) Evergreen rainforest
 - c) Semi evergreen forest

b) Seasonal rainforest d) Dry deciduous forest

- 28. Hot deserts such as
 - a) Sahara of North Africa
 - c) India Thar desert

- b) Southwestern U.S.
- d) All the above
- Which forest consists of low precipitation? 29.
 - a) Dry conifer forests

- b) Mediterranean forest
- c) Temperate coniferous forests
- d)Temperate broad-leaved rainforests
- Inland Sahara rainfall per year 30.
 - a) 15mm
- b) Less than 15mmc) Above 15mm
- d) None
- **Assertion** (A): Cold deserts have short, moist and moderately warm summers with 31. Fairly long, cold winter.

Reason (R): The winter temperature is between -2°C and 4°C and summer temperature is between 21°C and 26°C.

- a) A and R are true, R is the correct explanation of A
- b) A and R are true, R is not the correct explanation of A
- c) A is true, R is false
- d) Both A and R are false
- 32. Which desert is not found at low altitude?
 - a) Sahara desert b) Desert of Mexico
- c) Desert of Australia
- d) Ladakh

- 33. Catadromous migration
 - a) Migrate from sea to fresh water
- b) From fresh water to sea water
- c) From sea water to marine water
- d) From fresh water to

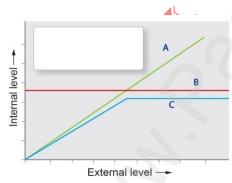
34.	Assertion (A): Migration.
	Reason (R): Peculiar and unique kind of mass population movement from one
	place to another and back.
	a) A and R are true, R is the correct explanation of A
	b) A and R are true, R is not the correct explanation of A
	c) A is true, R is false
	d) Both A and R are false
35.	Which leads to a rise in population leads?
	a) Migration b) Emigration c) Immigration d) None
36.	Which of the following is correct?
	a) Population change - (Birth + immigration) - (Death + immigration)
	b) Population change - (Birth + immigration) + (Death + immigration)
	c) Population change - (Birth + immigration) + (Death - immigration)
	d) Population change - (Birth - immigration) + (Death + immigration)
37.	Populations show characteristic growth patterns or forms. These patterns can be
	plotted and termed as
	a) J-shaped growth form b) S-shaped growth form
20	c) Sigmoid form
38.	r – selected species
	(i) Smaller sized organisms (ii) Long life expectancy
	(iii) Produce many offspring (iv) Mature early (iv) (ii) and (iv)
	a) (i) (ii) and (iii) b) (i) (ii) and (iv) c) (i) (iii) and (iv) d) (ii) (iii) and (iv)
39.	It is the maximum reproductive capacity of an organisms under optimum
37.	environmental conditions known as
	a) Biotic potential b) Carrying capacity
	c) Environmental resistance d) All the above
40.	Density dependent
	a) Extrinsic factors b) Intrinsic factors c) Both (a) and (b) d) None
41.	Intra specific association is observed for all livelihood processes like
	a) Feeding b) Breeding c) Protection d) All the above
42.	A mutually beneficial association necessary for survival of both partners is
12	a) Mutualism b) Commensalism c) Amensalism d) Both (a) and (b)
43.	Assertion (A): At high altitude a person, form plain areas, may experience altitude sickness.
	Reason (R): At high altitude atmospheric pressure is generally high leading to
	symptoms like nausea, fatigue, etc.,
	a) A and R are true, R is the correct explanation of A
	b) A and R are true, R is not the correct explanation of A
	c) A is true, R is false
	d) Both A and R are false
	,

44.	W	here diff	ferent species live	together but do	o not affect of	each othe	r ?	
	a)	Neutral	b) Positive	;	c) Negative	e c	d) None	
45.	A	ction and	l behaviour of anim	nals are instinc	ctive or learn	ned and a	nimals de	velop
	ce	rtain beh	navioural traits or a	daptations for	survival?			
	a)	Structura	al adaptations		b) Behavio	ural adap	otations	
	c)	Physiolo	ogical adaptations		d) All the a	above		
46.	Tv	wo most	well – known beha	avioural adapt	ations are.			
	a)	Crypsis	and mimicry		b) Hiberna	tion and a	aestivation	1
	c)	Migratio	on and courtship		d) Migratio	on and dia	apause 👍	
47.	M	imicry is	s useful for					
	a)	Conceal	ment b) Protecti	on	c) Predatio	n (d) Both (a) and (b)
48.	All	populat	ions in a given phy	sical area are	defined as			
	a)]	Biome	b) Ecosyst	em	c) Territor	y	d) Biotic f	actors
49.	Or	ganisms	which can survive	a wide range	of temperati	ier are ca	lled	
		Ectother	′ •	rms			7	
50.	Ma	itch the f	following and choo	se the correct	combination	n from the	e options a	given
	bel	ow.						
			COLUMN I		COLUMN			
		A.	Mutalism	1. Lion and	deer			
		B.	Commensalism	2. Round w	orm and ma	an		
		C.	Parasitism	3. Birds co	mpete with	squirrels	for nuts	
		D.	Competition	4. Sea aner	none on her	mit crab		
		E.	Predation	5. Bernacle	s attached to	o Whales	•	
	Dis	spersal						
	a)	A- 4,	B-5,	C-2,	D - 3,	E-1		
	b)	A- 3,	B-1,	C-4,	D - 2,	E-5		
	c)	A- 2		C-1,	D-5,	E-4		
	d)	A- 5,	B-4,	C-2,	D - 3,	E-1		
51.		4	at can move from f	Fresh water to	sea called as			
	a) 3	Stenothe	rmal		b) Eurythe	rmal		
	,	Catadron			d) Anadroi			
52.			nisms are able to m					
	_	Conform		legulate	c) Migrate		d) S	uspend
53.			Von Humbolt desc	ribed for the f	irst time:			
			cal Biodiversity					
* /			f limiting factor					
		-	area relationships					
. .		-	ion Growth equation					• •
54.				ns of the globe	exhibits highest species diversity?			sity?
			Ghats of India		b) Madaga			
	c)]	Himalaya	as	d) Amazon forests				

- 55. Population density
 - (i) The density of a population refers to its size in relation to unit of space and time.
 - (ii) Population density is the total number of that species within a natural habitat.
 - (iii) The population has definite structure and function that can be described with reference to time.
 - (iv) The density of population can be measured in serval ways.
 - a) (i) (ii) and (iii) b) (i) (ii) and (iv) c) (i) (iii) and (iv) d) (ii) (iii) and (iv)
- 56. Camels are able to
 - (i) Regulate water effectively for evaporative cooling through the skin respiratory system
 - (ii) Respiratory surface and well developed tracheal system.
 - (iii) Excrete highly concentrated urine.
 - (iv) With stand dehydration up to 25% of their body weight.
 - a) (i) (ii) and (iii)
- b) (i) (ii) and (iv)
- c) (i) (iii) and (iv) d) (ii) (iii) and (iv)

- 57. Behavioural adaptations
 - (i) Fleeing from a predator

- (ii) Hiding during sleep
- (iii) Seeking refuge from climate change
- (iv) Camouflage perfectly
- a) (ii) (iii) and (iv) b) (i) (iii) and (iv)
- c) (i) (ii) and (iv) d) (i) (ii) and (iii)
- 58. Which is a dynamic evolutionary process that fits organisms to their environment and enhancing their evolutionary fitness?
 - a) Adaptation
- b) Hibernation
- c) Aestivation
- d) Diapause
- 59. The figure given below is a diagrammatic representation of response of organisms to abiotic factors. What do A, B and C represent respectively.



S. N	o. A	В	С
a.	Conformer	Regulator Partial	Regulator
(b). "	Regulator Partial	Regulator	Conformer
, c.	Partial Regulator	Regulator	Conformer
d.	Regulator	Conformer Partial	Regulator

- 60. Human population shows
 - a) J-shaped growth curve

b) Z-shaped growth curve

c) S-shaped growth curve

d) All the above

ALL THE BEST

BEST WAY(ZOOLOGY)

BIODIVERSITY AND ITS CONSERVATIONS

MARKS: 60

TIME: 45 Mins

SUB: BIO - ZOOLOGY (Chapter – 11: One mark Test)

STD: XII

1.	Which are variability among living organis	sms from all sources, inclu	ding terrestrial,
	marine and other aquatic ecosystems? (a) Biodiversity b) Biogeographically	a) Roth (a) and (b)	d) Edology
2.	The term biodiversity was introduced by	c) Dom (a) and (b)	d) Ecology
2.	a) Edward Wilson b) Walter Rosen	c) Fraenkel	d) Singer
3.	How many species of trees are present in	· ·	
٥.	a) 25-35 species b) 20-35 species	-	
4.	Whom to describe diversity at all levels of	<u>=</u>	
••	biomes?	ororogical organization in	
		c) Walter Rosen	d) Hershey
5.	Which medical plant growing in different		,
	(a) Atropa belladonna	(b) Rouwolfia vomitaria	l
	(c) Cannabis sativa	(d) Datura	
6.	Which diversity can be measured using a	variety of molecular techn	iques?
	(a) Ecosystem (b) Community	(c) Species	(d) Genetic
7.	How many genetic variants of paddy prod	duces in India?	
	(a) 50,000 (b) Less than 50,	000 (c) More than 50,00	0 (d) 1000
8.	In Rouwolfia vomitaria plant, differences	in the potency and concer	ntration of the
	active ingredient, due to genetic diversity		
	(a) Reserpine (b) Sative	(c) Buturu	(d) None
9.	Which refers to the variety in number and	_	-
	(a) Species diversity	(b) Community diversity	y
	(c) Ecosystem diversity	(d) Genetic diversity	
10.	Read the following assertion and reason s	elect correct answer	
	Assertion: Species richness		
	Reason Number of species per unit ar	-	· C
	a) If both assertion and reason are true but	reason is correct explanat	ion ior
	assertion b) If both assertion and reason true, but re	agan is not the compact axpl	lanation for A
	b) If both assertion and reason true but recoll f assertion is true but reason is false	ason is not the correct expi	ianation for A
	d) If both assertion and reason are false		
11	Biodiversity is often quantified as the nun	nher of	
11.	(a) Genes in a region at a given time	(b) Genome a region at	a given time
	(c) Species in a region at a given time	(d) Family in a region at	•
12.	Which diversity measured by counting the	- · · · · - · · · · · · · · · · · · · ·	_
= -	community (or) ecosystem?		1
	(a) Alpha diversity	(b) Beta diversity	
	(c) Gamma diversity	(d) Delta diversity	
		-	

13.	Which diversity between two adjustment ecosystem and is obtaining by comparing					
	the number of species unique to the	ne ecos	ystem	?		
	(a) Alpha diversity		(t) Beta	a diversity	7
	(c) Gamma diversity		(0	d) Delt	ta diversit	y
14.	In India, with much of its land are	a in th	e tropi	cal lat	itudes, is	home for more than
	species of birds are present.					
	(a) 1200 (b) 1400)		(c) 105	(d) 56
15.	World's total land surface India i	is know	n to			
	(a) 1.4% (b) 2.4%	ó		(c) 4.1%	(d) 4.2%
16.	How many mega biodiversity pr	esent i	n India			
	(a) 10^{th} (b) 16^{th}			(c) 17 th	(d) 21th
17.	Patterns of biodiversity distributi	on				
	(i) The distribution of plants and	d anim	als is 1	not un	iform aro <mark>t</mark>	and the world
	(ii) Organisms require different	set of c	onditi	ons fo	r their op	timum metabolism and
	growth					
	(iii) Within this optimal range (h	nabitat)	a larg	e num	ibers, like	ly to occur growth and
	multiply					,
	(iv) The habitat conditions are de	etermin	ed by	ecosy	stem of er	vironment
	(a) (i) (ii) and (iv)				ii) and (iii	
	(c) (ii) (iii) and (iv)				hese abov	
18.	Topics harbour more biodiversity	y than t	empe	ate or	polar reg	ions, especially
	between					
	(a) 23.5° N and 23.5° S	(b	*		d 23.5°N	
	(c) 25.5° N and 25.5° S		7 (0	1) 26.5	5° S and 2	6.5° N
19.	Find the following statements					
	Statement I: India has one of the			•		•
	Statement II: Because alpine m				t,mangrov	ves, cora reefs,
	grassland and des		_		**	
	(a) Statement I is					
	(b) Statement I is o			ment 1	II is correc	et
	(c) Both statement					
20	(d)Both statement				1 11	11 1
20.	On logarithmic scale, the relation	iship is				
	(a) $\text{Log } C \neq \log S + Z \log A$,		•	C+Z log A
21	(c) Log Z log A= log S- Z log A				S = log C	_
21.	Match the column I and column	II abou	t the I			
·	COLUMN I	(*)			LUMN II	
	A) Trans Himalayan Region	(i)		15.0		
	B) Himalayas	(ii)		6.99		
	C) Indian Desert	(iii)		7.29		
	D) Semi-Arid Zone	(iv)	(:::)	5.79		
	a) (iii) (ii) (iv) (i)	,	(iii)	(iv)	(i) (ii)	
	c) (iv) (iii) (i) (ii)	d)	(iv)	(iii)	(ii) (i)	

22.	Which species hav	e proved harmfi	al to both aqu	iatic and terrestria	al ecosystems?
	a) Extinctions	b) Exotic	c)	Co-extinctions	d) Exploitation
23.	Which region between range covering?	ween the desert	and Deccan p	olateau, including	the Aravalli hill
	a)Trans Himalaya	n region	b)	Indian desert	
	c) Western Ghats	C		Semi – Arid Zoi	nes
24.	Statement I : De	crease in specie			A
	Statement II : On	-	•	ue to drop in tem	perature
		_		nt II is incorrect	
		atement I is cor			
		oth statement are		,	
	, ,	th statement are			
25.	The annual rainfa				
	a) 200 mm	b) 2000 :	mm c) 300 mm	d) 3000 mm
26.	Landmass of Dece	can Peninsula	,		
	a) 5.7%	b) 7.2%	c)	4.3%	d) 6.9%
27.	Swamp deer seen	in			
	a) Gangetic region	1	b)	North East India	
	c) Himalayas		<u>(d)</u>	Western Ghats	
28.	Golden langur see	en in			
	a) Gangetic plains	3	(b)	North East India	
	c) Coastal region		d)	Andaman and Ni	icobar Island
29.	How many numb	er of islets cons	titute the Lak	shadweep?	
	a) 21	b) 23		24	d) 25
30.	Which of the follo		-		
	a) Coastal Region				a – Golden langui
	c) Deccan penins			Semi –Arid zone	es – Hog-deer
31.	Which of the follo				
				he west coast of l	
		00 km from sat	pena in south	so Gujarat to so	uthernmost tip of
	Kerala		1 . 1.1	D 1.	
	ii) Semi-Arid Zon	nes between the	desert and th	e Deccan plateau	i, including the
	Aravalli range		6.1	1 .1 .	1 1
	iii) Indian Desert			n mud south-cent	ral plateau with a
		y deciduous veg		1 1 6	11 41 0
	iv) North-East In	dia piains are re	latively nome	ogenously defined	a by the Ganges
	river system	(**)	(:::)	(*)	
	(i) True	(ii) Falsa	(iii) Falsa	(iv)	
	a) True	False	False True	True False	
	b) True c) True	False True	False	False False	
	c) IIue	TIUC	raise	1 aist	

True

True

False

d)

False

32.	Assertion : A	Andaman and	Nicoba	ır İsland	ls		
	Reason : Bay of Bengal have highly diverse set of biomes.						
	a) If both asse	rtion and reas	son are	true but	reason is	correct explan	ation for
	assertion						
	b) If both asse	rtion and reas	son true	but re	ason is not	the correct ex	xplanation for
	assertion						
	c) If assertion						
	d) If both asse						
33.		-		•			frugivores and
		r age over mi	uch larg	ger areas	s than gene	eral dietary he	rbivores and
	omnivores?	1) D (1)	•		\ T' 1	10	
2.4	a) Birds	b) Reptil			c) Fishe	S	Mammals
34.	Which statem			1 • 1•	. 1		
-	a) Loss of nat	-	- H				non- native species
-	b) Natural dis						ake and volcanoes.
	c) Over explo	itation of res	ources				ng and mining.
	d) Co-extincti					3% of all spec	
35.		are forced to	adapt to	the cha	anges in the	e environment	t or move to other
	places?						
	a) Natural hab		o) Habit	at loss	c) Artifi	cial habitats	d) None
36.	"Lungs of the	_					1) 3.711
27	a) Gir forest		b) Ama			laikanal	d) Nilgiri
37.	What are the l	nilis of Tamil	Nadu I	nave be	en destroye	ed rapidly for	numan
	occupancy? a) Kodaikanal	and Various			b `) Nilgiri and Y	Varcand
	c) Kodaikanal		T			Ooty and Co	
38.	Which animal		nd migr	atory ro		•	
50.	a) Sparrows		Elepha		c) D		d) Sea cow
39.	Which animal		_		,		,
	exploitation b					,	
	a) Dodo				b) Passe	enger pigeon	
	c) Steller's se	cow			d) All th	ne above	
40.	Match the col	umn – I and	colum	n –II ab	out landma	ass of biogeog	raphic region.
	COI	LUMN - I		COLU	JMN - II		
		al region	(i)	4.3	3%		
		n peninsula	(ii)	2.5			
	_	tic plains	(iii)	5.2			
	L	East India	(iv)	11			
	a) P –(iv)	Q-(iii)	R-(S-(i)		
	b) P- (iii)	Q-(iv)	R-(S-(ii)		
	c) P-(ii)	Q-(i)		(iv)	S-(iii)		
	d) P-(ii)	Q-(i)	K-((iii)	S-(iv)		

- 41. Which fish introduction into Lake Victoria in East Africa?
 - a) Nile perch
- b) Cichlid

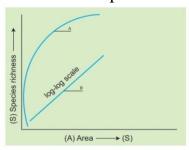
- c) Tilapia
- d) Labeo

- 42. Zoological name of papaya mealy bug
 - a) Paracoccus marginatus

b) Oreochromis mossambicus

c) Labeokontius

- d) Achatinafulica
- 43. Which option correctly describes the equations for curves A and B in the given graph of species area relationship?



A	В
a) S=CA ^Z Log	C=Log S + Z log A
b) $Log C = Log S + Z log A$	S=CAZ
c) $\text{Log S} = \text{Log C} + \text{Z log A}$	S=CA ^Z
d) S=CA ^Z	Log S Log C + Z log A

- 44. Steller's sea cow of Russia
 - (a) Natural extinction

- (b) Mass extinction
- (c) Anthropogenic extinction
- (d) Locally extinction
- 45. **Assertion**: Co-extinction

Reason: Species is the loss of a species as a consequence of the extinction of another

- a) If both assertion and reason are true but reason is correct explanation for assertion
- b) If both assertion and reason true but reason is not the correct explanation for A
- c) If assertion is true but reason is false
- d) If both assertion and reason are false
- 46. Match column I and column II and select the correct option Nationals Park in Tamilnadu with establishment of year

	C	OLUMN I			COI	LUMN II
A'	Guindy			((i) 199	90
B)	Gulf of ma	anner marine		((ii) 19	80
C	Indira Gar	idhi (Anama	lai)	((iii) 19°	76
D	Mudumala	ıi		((iv) 19	89
<u>a)</u>	A (i)	B (ii)	С	(iii)	D	(iv)
b) .	A (iv)	B (ii)	C	(iii)	D	(i)
c) .	A (ii)	B (iv)	C	(i)	D	(iii)
d) .	A (iii)	B (ii)	C	(iv)	D	(i)

- 47. IUCN means
 - (a) International Union for Contribution of Nature
 - (b) International Union for Conservation of Nature
 - (c) International Union for Center of Ecology
 - (d) Intrnational Union fro Ecosystem
- 48. How many number of plant species are endangered in the IUCN red list in 2012?
 - (a) 1102

- (b) 1197
- (c) 3079

- (d) 2655
- 49. The Earth has experienced quite a few mass extinctions due to environmental catatrophes.
 - (a) Natural extinction

(b) Mass extinction

(c) Anthropogenic extinction

(d) Locally extinction

- 50. WCU abbreviations
 - (a) World Conservation of Inida

(b) World Conservation Union

(c) World Conservation of Union

- (d) World Care Unit
- 51. Which conservation of genetic resources through their protection with in a natural or man made ecosystem?
 - (a) Insitu conservation (b) Ex-situ conservation
- (c) Both (a) and (b) (d) None

- 52. Number of National Parks in India
 - (a) 771

(b) 104

- (c) 544
- (d) 18

- 53. Wild Life Protection Act (WPA) in
 - (a) 1972

(b) 1982

- (c) 1992
- (d) 2002

54. Select the incorrect pair

(a) Gulf of Manner Marine	- 1980
(b) Vedanthangal Lake Bird	ls - 1936
(c) Point Calimere	- 1967
(d) Mundanthurai	1976

55. Biogeographical regions of India, find out "A".



- a) Jim Corbett National park -Uttarakhand
- b) Kaziranga National Park -Assam

c) Gir forest - Gujarat

d) Gulf of Mannar Marine -Tamil Nadu

www.Padasalai.Net - No.1 Educational Website in Tamilnadu

- 56. Kaziranga National Park in (a) Kerala (b) Assam (c) Gujarch (d) Nicobar Island **MAB** 57. (a) Man And Biosphere (b) Man and Biodiversity (d) Man and Botanical gardens (c) Man and Biology Which conservation of selected rare plants (or) animals in places outside their 58. natural homes (b) Ex-site conservation (a) In – situ conservation (c) Both (a) and (b) (d) Biodiversity 59. An example of ex-situ conservation is (a) Sacred Grove (b) National Park
- (c) Seed Bank
 (d) Wildlife Sanctuary
 60. **Assertion :** The Environmental conditions of the tropics are favourable for speciation And diversity of organisms.

Reason: The climate seasons, temperature, humidity and photoperiod are more or less stable and congenial.

- a) Both Assertion and Reason are true and Reason explains Assertion correctly.
- b) Both Assertion and Reason are true but Reason is not the correct explanation of Assertion.
- c) Assertion is true, but Reason is false.
- d) Both Assertion and Reason are false.

ALL THE BEST



BEST WAY(ZOOLOGY) STD: XII **MARKS: 50 SUB: BIO-ZOOLOGY ENVIRONMENTAL ISSUES**

TIME: 45 Mins (Chapter – 12: One mark Test)

1.	•	the physical, chemical and biological
		lue to natural causes and human activities?
2	(a) Pollution (b) E-waste	(c) Agrochemicals (d) Wastes
2.	Which pollution can be broken down	41
	(a) Rapidly degradable	(b) Slowly degradable
2	(c) Persistent pollutants	(d) Non-degradable pollutants
3.	Which pollutants can not be degrade	
	(a) Rapidly degradable	(b) Persistent pollutants
4	(c) Non- persistent pollutants	(d) Non-degradable pollutants
4	•	tal right, under the Indian Constitution
_	a) Article 12 b) Article 21	c) Article 31 d) Article 41
5.		genda 21' of Rio Summit, 1992 is related to?
	a) Sustainable development	
	b) Combating the consequences of	
	c) Mitigation norms of Green House	
		to developing countries for 'clean-energy'
_	production	
6.	Match it:-	1
		Depletion of ozone
	(B) Sulphur dioxide - (ii)	Fossil fuel combustion
	(C) Nitrogen oxides - (iii)	Rapid urbanization
	(D) Chlorofluorocarbons - (iv)	Incomplete combustion of fossil fuels
	(a) A-(iv) B-(iii) C-(ii) D-(i)	(b) A-(iii) B-(iv) C-(ii) D-(i)
	(c) A-(iv) B-(ii) C-(iii) D-(i)	(d) A-(iv) B-(iii) C-(i) D-(ii)
7.	The 'thickness' of Stratospheric Ozo	one layer is measured in/on:
	a) Sieverts units b) Dobson units	c) Melson units d) Beaufort Scale
8.	As per 2017 statistics, the highest pe	er capita emitter of Carbon dioxide inthe world is
	a) USA b) China	c) Qatar d) Saudi Arabia
9.		sm to remove pollutants such as oil spills in the
	water bodies is known as	
	a) Biomagnification	b) Bioremediation
	c) Biomethanation	d) Bioreduction
10.	Particulate matters are	
	(i) Tiny particle of solid matter susp	ended in a gases (or) liquid
	(ii) Combustion of soil fuels, fly ash	produced in thermal power plants
	(iii) Cement factories are the main se	ources of particulate matter pollution
	(iv) Chlorofluorocarbons are the ma	in sources of ozone depletion
	(a) (i) (ii) and (iii) (b) (ii) (iii) and	nd (iv) (c) (i) (ii) and (iv) (d) (i) (iii) and (iv)

11.	Which causes agg	gravates exiting l	health conditions such as en	mphysema and asthma?
	(a) Soil pollution	(b) Water poll	ution (c) Noise pollution	(d) Air pollution
12.	What are the judi	cal safeguard to	environmental protection?	
	(a) Green bench	_	(b) National Green Tr	ibunal
	(c) Both (a) and (b)	(d) None of these	
13.	Statement I : C	O is produced m	ainly due to incomplete co	mbustion of fossil fuels.
	Statement II: A	utomobiles are n	najor causes of CO pollution	on in large cities and
	t	owns	2	
	(a) S	tatement I is cor	rect, statement II is incorre	ect
	(b) S	Statement I is con	rect, statement II is correct	
	(c) E	Both statement ar	e correct	
	(d) E	Both statement ar	re incorrect	
14.	Smog			
	(i) Increases gro	und level ozone	and particular matter, redu	icing visibility
	(ii) Can make bro	eathing more dif	ficult, especially for peopl	e with asthma
	(iii) It has also be	en known to cau	se corrosive damage to bui	Idings and vehicles
	(iv) Affects plant	s and damages ca	rops only	
	(a) (i) (ii) and (iv	['])	(b) (i) (ii) and (i	iii)
	(c) (ii) (iii) and (a	iv)	(d) (i) (iii) and	(iv)
15.			life and the health of the e	
			it is one in which water qua	•
		and the second s	organisms and protects pu	
		n and reason are	true but reason is correct e	explanation for
	assertion			
			e but reason is not the corr	rect explanation for A
	c) If assertion is t			
1.0	d) If both assertion	n and reason are	e false	
16.	PCB means			m 1
	(a) Poly Chlorina	*//	(b) Cathode Ray	
17	(c) Polymerase C		• •	ated Dipnenyi
17.			round, mines, oil wells, as	:11a (d) A 11 4h a ah ayya
10			nt sources (c) Leaks and s	-
18.			stem becomes uninhabitab	•
19.	Excess of fluoride		ution (c) Soil pollutio	on (a) Sound pondulon
19.	(a) Ascariasis	(b) Fluorosis	(c) Filariasis	(d) All the above
20.		` ' '	ys decreases in a Food chai	
20.	a) Number	b)Accumulated		
21.	<i>'</i>	*	tle Phones, which among the	· · · · · · · · · · · · · · · · · · ·
21.	most abundant?	ned by the Mobi	ne i nones, which among u	ic following metal is
		b) Silver	c) Palladium	d) Gold
22.	SMOG is derived		c) i anadium	u) Gold
	a) Smoke	b) Fog	c) Both (a) and (b)	d) Only A
	a, Dillone	J 1 J 5	c) Dom (a) and (b)	<i>a,</i> 0111, 11

23.	The Hydrochlorofluoro	carbons (HCFCs) are	e the compounds v	which have the
	following molecules	1) C1 1 '	1\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
2.4	, •	arbon	c) Chlorine	d) Fluorine
24.	Excess of fluoride in dr	•		1/ 37 0.1 1
2.5		ntestinal infection	c) Fluorosis	d) None of the above
25.	USEPA	.		45
	(a) United States Ecolog		=	
	(b) United States Efflue		-	
	(c) United States Enviro		•	
	(d) United States Enviro		•	
26.	Biomagnification resul		ty and may even b	e lethel, this
	phenomenon is well est	ablished for		
	a) Lead and Copper		(b) Mercury and	
	c) Copper and DDT		(d) Mercury and	
27.	When run off from lard	•		
	results, in dense growth	n of plant life this ph		7
	(a) Biomagnification		(b) Eutrophicatio	n
	(c) Ecosystem		(d) Food chain	
28.	Which of the main obje	ctive of a process is	to reduce organic	and inorganic
	components?			
	(a) Waste water treatme	ent	(b) Primary treati	
	(c) Secondary treatment		(d) Tertiary treati	
29.	Which treatment involv	es the physical remo	oval to solid and pa	articulate organic and
	inorganic materials from	om sewage through f	filtration and sedin	nentation?
	a) Primary b) S	econdary	c) Tertiary	d) All the above
30.	The soil and small pebb	les (grit) are remove	ed by	
			Sequential filtratio	
31.	In tertiary sewage treatr	nent, UV treatment i	is an alternative for	r
	a) Biological treatment		b) Sedimentation	
	c) Chlorination		d) Sequential filt	ration
32.	Read the given statemen	nt and select the corr	rect options.	
	Statement 1: Secondar	ry treatment sludge i	s pumped into larg	ge tanks called
	anaerobic	sludge digesters.		
	Statement 2: Here the	bacteria which grow	anaerobically, di	gest the bacteria and
	fungi in t	the sludge.		
	a) Both Statement 1 and	2 are correct and stat	tement 2 isthe corr	rect explanation
7	of statement 1			
	b) Both Statement 1 and	2 are correct and star	tement 2 is the no	t correct explanation
	of statement1			
	c) Both statement 1 and	2 are correct		
	d) Both statement 1 and	2 are incorrect		
33.	Who was a supporter a	nd export of organic	forming?	
	(a) Dr.Sulthan	(b) G.Nammalvar	(c) Henri H	Brssion (d) Fabry

34. Which one of the following wrong pair?

(a) RZWT	_	Root Zone Waste water Treatment
(b) DEWATS	_	Decentralized Waste water Treatment System
(c) USEPA	_	United State Environmental Protection Agency
(d) MOEFCC	_	The ministry of Environment Climate Change

35. Match the column –I and column II about major sources of solid waste.

	Waste category	Source
A)	Residential	(i) Food wastes, plastic, paper, glass, leather and cardboard.
B)	Industrial	(ii) Thin and thick plastics, food waste cardboard materials.
C)	Commercial	(iii) Steel materials, concrete, rubber, copper wires.
D)	Construction	(iv) Packaging wastes, ashes, chemicals can metal parts.

- (a) A (iv) (B) (iii) (C) (ii) (D) (i)
- (b) A (i) (B) (ii) (C) (iv) (D) (iii)
- (c) A (i) (B) (iv) (C) (ii) (D) (iii)
- (d) A (i) (B) (ii) (C) (iv) (D) (iii)
- 36. Nammalvar developed social forest at Ammankurai and Kolunji Ecological Farm in (a) Trichy (b) Pudukottai (c) Karur (d) Bangalore
 - Who is an Indian soil biologist and ecologist from Tamil Nadu?
 - (a) G. Nammalvar

(b) Dr. Sultan Ahmed Ismail

(c) Jadav Payeng

37.

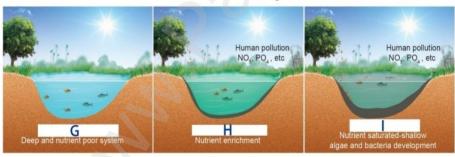
- (d) Sunderlal Bahugana
- 38. Which method to provide a high level of long term isolation and containment without future maintenance of nuclear waste?
 - (a) Spent Fuel Pools

(b) Vitrification Method

11

(c) Geological repositories

- (d) All the above
- 39. Find out correct stages of eutrophication given below diagram G, H, I.



G	Н	I
a) Oligotrophic stage	Mesotrophic stages	Eutrophic stage
b) Oligotrophic stage	Eutrophic stages	Mesotrophic stages
c) Mesotrophic stage	Oligotrophic Stages	Eutrophic stages
d) Eutrophic stage	Mesotrophic stages	Oligotrophic stages

- 40. Which type of waste low molecular weight organic polymers that are non-degradable organic in the natural environment?
 - (a) Residential

(b) Plastic waste

(c) E-waste

(d) Commercial

41.	Which method is the destruction of for available for other uses?	ests in ord	er to clear the land and				
	(a) Green House Effect	(b) I) of oraștațion				
	(c) Ozone layer depletion		Deforestation Global warming				
42.	Match the column I and column II.	(u) (Jiodai wai iiiiig				
T <i>2</i> .	P Pape, cardboard materials 1 E-waste						
	Q Spoiled food, pesticide container		Biomedical	A			
	R Sanitary napkins, urine bags	$\begin{vmatrix} 2 \\ 3 \end{vmatrix}$	Ashes, can				
	S Cassettes, mouse	4	Institutional				
	T Industrial	5	Agriculture \				
	a) P-4 Q-5 R-1 S-2 T-3	5	rigilealtare				
	b) P-3 Q-2 R-1 S-5 T-4						
	c) P-4 Q-2 R-5 S-1 T-3						
	d) P-4 Q-5 R-2 S-1 T-3						
43.	Statement I : Ecological sanitation	(ECOSAN) is a sustainable syste	em for			
			ng dry composting toil				
	Statement II: ECO san toilets not on	•					
			om recycled human e				
	excellent substitute for	or chemica	fertilisers				
	(a) Statement I is correct	et and II w	rong				
	(b) Statement I and II wr	ong					
	(c) Statement I and II cor	rect					
	(d) Statement I is wrong	g and II co	rrect				
44.	"Eco san" toilets are being used in sev	eral parts	of				
	(a) India (b) Sri Lanka	(c) Both (a) and (b)	(d) Japan			
45.	Increase in the concentration of the tox		_	s is known as			
	a) Biodeterioration	<i>'</i>	iotransformation				
	c) Biogeochemical cycling		iomagnifications				
46.	A river with an inflow of domestic sev	_	_	esult in:			
	a) Drying of the river very soon due to	•					
	b) Increased population of aquatic food web organisms						
	c) An increased production of fish due	e to biodeg	radable nutrients				
4.77	d) Death of fish due to lack of oxygen	4					
47.	A lake which is rich in organic waste i	•	n				
	a) Drying of the lake due to algal bloom		• ,				
	b) Increased population of fish due to		ients				
	Mortality of fish due to lack of oxyg		4				
10	d) Increases population of aquatic org			n			
48.	Which of the following in sewage trea		-	1			
	(a) Tertiary treatment	, ,	Secondary treatment				
	(c) Primary treatment	(a) S	Sludge treat				

- 49. Acid rain is caused by increase in the atmospheric concentration of
 - (a) O_3 and dust

(b) SO₂ and NO₂

(c) SO₃ and CO

(d) CO₂ and CO ment

50. Identify the correct E-waste



A	В	C	D
a) Keyboard, Mouse	Audio/Video	Television, Monitor	Personal Electronic
b) Keyboard, Mouse	Personal Electronic	Audio/Video	Television, Monitor
c) Personal electronic	Audio/Video	Television /Monitor	Scanner/Printers
d) Personal Electronic	Television, Monitor	Audio/Video	Cell phones / Tablets

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