# HSC SECOND YEAR BIOLOGY 2023-24

## **BIOLOGY-BOTANY**

## CHAPTER 1 ASEXUAL AND SEXUAL REPRODUCTIONS IN PLANTS

1. Choose the correct statement from the					
a) Gametes are involved in asexual rep					
b) Bacteria reproduce asexually by budding					
c) Conidia formation is a method of sex	xual reproduc	tion			
d) Yeast reproduce by budding					
2. An eminent Indian embryologist is					
a) S.R.Kashyap b) P.Maheswari		c) M.S. Sw	aminathan	d) K.C.Mehta	
3. Identify the correctly matched pair					
a) Tuber - <i>Allium cepa</i> b) Sucker – <i>Pis</i>	stia	c) Rhizome	e - Musa	d) Stolon -	
Zingiber					
4. Size of pollen grain in <i>Myosotis</i>					
a) 10 micrometer b) 20 micrometer		c) 200 mic	rometer	d) 2000	
micrometer					
5. First cell of male gametophyte in an					
a) Microspore b) megaspore	c) Nucl	eus	d) Primary En	ndosperm Nucleus	
6. Match the following					
	i) pollen graii				
	ii)anther wall				
,	iii)algae				
, , ,	iv) stamens				
a) I-iv; II-i; III-ii; IV-iii					
b) I-iii; II-iv; III-i; IV-ii		<b>\</b>			
c) I-iii; II-iv; III-ii, IV-i					
d) I-iii; II-i; III-iv; IV-ii					
7. Arrange the layers of anther wall fro		riphery			
a) Epidermis, middle layers, tapetum, e					
b) Tapetum, middle layers, epidermis,					
c) endothecium, Epidermis, middle laye					
d) Tapetum, middle layers, endothecium	n, epidermis				
8. Identify the incorrect pair					
a) sporopollenin - exine of pollen grain					
b) tapetum – nutritive tissue for develo					
c) Nucellus – nutritive tissue for develo					
d) obturator – directs the pollen tube in					
9. Assertion :Sporopollenin preserves p		-			
Reason: Sporopollenin is resistant to pl	•	_	-		
a) assertion is true; reason is false	,		se; reason is t		
c) Both Assertion and reason are not tr	,		and reason ar	re true.	
10. Choose the correct statement(s) about			. 1 1	11	
a) Sporogenous cell is hypodermal			irly large nuce		
c) sporogenous cell is epidermal			igle layer of n	ucellus tissue	
11. Which of the following represent m			1	\T 1	
a) Ovule b)Embryo sac	c)Nuce			)Endosperm	
12. In <i>Haplopappusgracilis</i> , number of			of nucellus is	4. What will be	
the chromosome number in Primary en		?	1	\2	
a)8 b)12	c)6		d	)2	
13. Transmitting tissue is found in	1. \ D 11		11		
a) Micropylar region of ovule		len tube wal	П		
) Stylar region of gynoecium d) Integument					

parents

14. The scar left by funiculus in the seed		
a) tegmen b)radicle	c)epicotyl	d)hilum
15. A Plant called X possesses small flow	ver with reduced peria	anth and versatile anther. The
probable agent for pollination would be a)water b)air	c)butterflies	d)beetles
16. Consider the following statement(s)	Cjoutterines	djoeches
i) In Protandrous flowers pistil matures e	arlier	
ii) In Protogynous flowers pistil matures		
iii) Herkogamy is noticed in unisexual flo		
iv) Distyly is present in <i>Primula</i>		
a) i and ii are correct b) ii and iv are cor	rect c) ii and iii are	correct d) i and iv are correct
17. Coelorhiza is found in		
a) Paddy b)Bean	c)Pea	d)Tridax
18.Parthenocarpic fruits lack	\- <u>-</u>	
a)Endocarp b)Epicarp	c)Mesocarp	d) seed
19. In majority of plants pollen is liberate		1) 4 11 1 4
a) 1 celled stage b) 2 celled stage	c) 3 celled stage	d) 4 celled stage
2. CLASSICAL GENETICS		
1. Extra nuclear inheritance is a consequent	ence of presence of a	ones in
a) Mitrochondria and chloroplasts		reticulum and mitrochondria
c) Ribosomes and chloroplast		osmes and ribosomes
2. In order to find out the different types		
genotypeAaBb, it should be crossed to a		
a) aaBB b) AaBB	c) AABB	
3. How many different kinds of gamete	s will be produced	by a plant having the genotype
AABbCC?		
a) Three b) Four	c) Nine	d) Two
4. Which one of the following is an examp		
a) Flower colour in <i>Mirabilis Jalapa</i>		ction of male honey bee
c) Pod shape in garden pea		olour in humans
5.In Mendel's experiments with garden		
wrinkled seeds (rr), yellow cotyledon	` '	
the expected phenotypes in the F2 general		Y X rryy?
<ul><li>a) Only round seeds with green cotyledor</li><li>b) Only wrinkled seeds with yellow cotyl</li></ul>		
c) Only wrinkled seeds with green cotyle		
d) Round seeds with yellow cotyledons a		n vellow cotyledons
6. Test cross involves	ii wiiikida seeds witi	i yenew ectytedons
a) Crossing between two genotypes with	recessive trait	
b) Crossing between two F1 hybrids		
c) Crossing the F1 hybrid with a double r	ecessive genotype	
d) Crossing between two genotypes with	dominant trait	
7.In pea plants, yellow seeds are domin	ant to green. If a h	eterozygous yellow seed pant is
crossed with a green seeded plant, what r	atio of yellow and gro	een seeded plants would youexpect in
F1 generation?		4) 70 70
a) 9:1 b) 1:3	c) 3:1	d) 50:50
8. Select the correct statement from the or	_	± •
a) Tightly linked genes on the same chron		
b) Tightly linked genes on the same chromes.	_	
c) Genes far apart on the same chromosomed) Genes loosely linked on the same of	mes show very tew it	
	chromosomes show	similar recombinations as the tightly
linked ones	chromosomes show	similar recombinations as the tightly

a) Incomplete dominance b) Law of dominance c) 1 10. Fruit colour in squash is an example of	Inheritance of one gene	e d) Co-dominance
a) Recessive epistatsis b) Dominant epistasis c) C		d) Inhibitory genes
11.In his classic experiments on Pea plants, Mendel		1) G 1 1
, 01	Pod length	d) Seed shape
12. The epistatic effect, in which the dihybrid cross		Aabb is modified as
a) Dominance of one allele on another allele of both	1 loc1	
b) Interaction between two alleles of different loci	1 .	
c) Dominance of one allele to another alleles of sam	ne loci	
d) Interaction between two alleles of some loci	4	
13.In a test cross involving F1 dihybrid flies, mo	re parental type offsp	ring were produced than
the recombination type offspring. This indicates		
a) The two genes are located on two different chron	nosomes	
b) Chromosomes failed to separate during meiosis	4	
c) The two genes are linked and present on the some		
d) Both of the characters are controlled by more tha	_	
14. The genes controlling the seven pea characters st	tudied by Mendel are k	nown to be located on
how many different chromosomes?		
a) Seven b) Six	c) Five	d) Four
15. Which of the following explains how progeny	can posses the combin	ations of traits that none
of the parent possessed?		
a) Law of segregation	b) Chromosome theor	-
c) Law of independent assortment	d) Polygenic inheritan	ce
16. "Gametes are never hybrid". This is a statement		
a) Law of dominance	b) Law of independent	
, , , , , , , , , , , , , , , , , , , ,	of random fertilization	
17.Gene which suppresses other genes activity but of		e locus is called as
a) Epistatic b) Supplement only c) Hyp		d) Codominant
18. Pure tall plants are crossed with pure dwarf plan	ts. In the F1 generation	, all plants were
tall. These tall plants of F1 generation were sel	fed and the ratio of	tall to dwarf plants
obtained was 3:1. This is called		
a) Dominance b) Inheritance	c) Codominance	d) Heredity
19. The dominant epistatis ratio is		
a) 9:3:3:1 b) 12:3:1	c) 9:3:4	d) 9:6:1
20. Select the period for Mendel's hybridization exp	eriments	
a) 1856 - 1863 b) 1850 - 1870	c) 1857 - 1869	d) 1870 - 1877
21. Among the following characters which one v	vas not considered by	Mendel in his
experimentation pea?		
a) Stem – Tall or dwarf	b) Trichomal glandula	ır or non-glandular
c) Seed – Green or yellow	d) Pod – Inflated or co	onstricted
3. CHROMOSOMAL BASIS OF INHERITANCE		
1.An allohexaploidy contains		
a) Six different genomes	b) Six copies of three	different genomes
c) Two copies of three different genomes	d) Six copies of one go	enome
2.Match list I with list II		
List I	List II	
A .A pair of chromosomes extra with diploid	i) monosomy	
B. One chromosome extra to the diploid	ii) tetrasomy	
C. One chromosome loses from diploid	iii) trisomy	
D. Two individual chromosomes lose from diploid	iv) double monosomy	y
a) A-i, B-iii, C-ii, D-iv	b) A-ii, B-iii, C-iv	
c) A-ii, B-iii, C-i, D-iv	d) A-iii, B-ii, C-i,	
3. Which of the following sentences are correct?	, , , , , , , , , , , , , , , , , , , ,	
1. The offspring exhibit only parental combinations		

www.Padasalai.Net www.Trb Tnpsc.Com 2. The linked genes exhibit some crossing over in complete linkage 3. The separation of two linked genes are possible in incomplete linkage 4. Crossing over is absent in complete linkage b) 2 and 3 c) 3 and 4 d) 1 and 4 4. Due to incomplete linkage in maize, the ratio of parental and recombinants are c) 96.4: 3.6 a) 50:50 b) 7:1:1:7 d) 1:7:7:1 5. The point mutation sequence for transition, transition, transversion and transversion in DNA a) A to T, T to A, C to G and G to C b) A to G, C to T, C to G and T to A c) C to G, A to G, T to A and G to A d) G to C, A to T, T to A and C to G 6. If haploid number in a cell is 18. The double monosomic and trisomic number will be b) 34 and 35 c) 37 and 35 a) 34 and 37 d) 17 and 19 7. Changing the codon AGC to AGA represents a) missense mutation b) nonsense mutation c) frameshift mutation d) deletion mutation 8. Assertion (A): Gamma rays are generally use to induce mutation in wheat varieties. Reason (R): Because they carry lower energy to non-ionize electrons from atom a) A is correct. R is correct explanation of A b) A is correct. R is not correct explanation of A c) A is correct. R is wrong explanation of A d) A and R is wrong 4 PRINCIPLES ANDPROCESSES OF BIOTECHNOLOGY 1. Restriction enzymes are a. Not always required in genetic engineering b. Essential tools in genetic engineering c. Nucleases that cleave DNA at specific sites d. both b and c 2. Plasmids are a. circular protein molecules b. required by bacteria c. tiny bacteria d. confer resistance to antibiotics 3. EcoRI cleaves DNA at a. AGGGTT b. GTATATC c. GAATTC d. TATAGC 4. Genetic engineering is a. making artificial genes. b. hybridization of DNA of one organism to that of the others. c. production of alcohol by using micro organisms. d. making artificial limbs, diagnostic instruments such as ECG, EEG etc., 5. Consider the following statements: I. Recombinant DNA technology is popularly known as genetic engineering is a stream of biotechnology which deals with the manipulation of genetic materials by man invitro II. pBR322 is the first artificial cloning vector developed in 1977 by Boliver and Rodriguez from E.coli plasmid III. Restriction enzymes belongs to a class of enzymes called nucleases. Choose the correct option regarding above statements b. I & III c. II & III 6. The process of recombinant DNA technology has the following steps I. Amplication of the gene II. Insertion of recombinant DNA into the host cells III. Cutting of DNA at specific location using restriction enzyme. IV. Isolation of genetic material (DNA)

a. 5 CGTTCG 3 3 ATCGTA 5

c. 5 GAATTC 3 3 CTTAAG 5

8. pBR 322, BR stands for

a. II, III, IV, I

7. Which one of the following palindromic base sequence in DNA can be easily cut at about

c. I, II, III, IV

b. 5 GATATG 3 3 CTACTA 5

d. 5 CACGTA 3 3 CTCAGT 5

d. IV, III, I, II

Pick out the correct sequence of step for recombinant DNA technology.

b. IV, II, III, I

the middle by some particular restriction enzymes?

a. Plasmid Bacterial Recombination

- c. Plasmid Boliver and Rodriguez
- d. Plasmid Baltimore and Rodriguez

b. Plasmid Bacterial Replication

9. Match the following

Column A

Column B

- 1 Exonuclease
- 2 Endonuclease
- 3Alkaline Phosphatase
- 4 Ligase

- a. add or remove phosphate
- b. binding the DNA fragments
- c. cut the DNA at terminus
- d. cut the DNA at middle

- 1 2 3 4
- A) a b c d
- B) c d b a
- C) a c b d
- D) c dab
- 10 In which techniques Ethidium Bromide is used?
- a. Southern Blotting techniques
- b. Western Blotting techniques
- c. Polymerase Chain Reaction
- d. Agrose Gel Electroporosis
- 11 Assertion: Agrobacterium tumifaciens is popular in genetic engineering because this bacteriumis associated with the root nodules of all cereals and pulse crops

Reason: A gene incorporated in the bacterial chromosomal genome gets atomatically transferred to the cross with which bacterium is associated.

- a) Both assertion and reason are true. But reason is correct explanation of assertion.
- b) Both assertion and reason are true. But reason is not correct explanation of assertion.
- c) Assertion is true, but reason is false.
- d) Assertion is false, but reason is true.
- e) Both assertion and reason are false.
- 12 Which one of the following is not correct statement.
- a) Ti plasmid causes the bunchy top disease
- b) Multiple cloning site is known as Polylinker
- c) Non viral method transfection of Nucleic acid in cell
- d) Polylactic acid is a kind of biodegradable and bioactive thermoplastic.
- 13 An analysis of chromosomal DNA using the southern hybridisation technique does not use
- a) Electrophoresis

- b) Blotting
- c) Autoradiography
- d) Polymerase Chain Reaction
- 14 An antibiotic gene in a vector usually helps in the selection of
- a) Competent cells b) Transformed cells
- c) Recombinant cells d) None of the above
- 15 Some of the characteristics of Bt cotton are
- a) Long fibre and resistant to aphids
- b) Medium yield, long fibre and resistant to beetle pests
- c) high yield and production of toxic protein crystals which kill dipteran pests.
- d) High yield and resistant to ball worms

### 5. PLANT TISSUE CULTURE5 PLANT TISSUE CULTURE

- 1. Totipotency refers to
- a) capacity to generate genetically identical plants.
- b) capacity to generate a whole plant from any plant cell / explant.
- c) capacity to generate hybrid protoplasts.
- d) recovery of healthy plants from diseased plants.
- 2. Micro propagation involves
- a) vegetative multiplication of plants by using micro-organisms.
- b) vegetative multiplication of plants by using small explants.
- c) vegetative multiplication of plants by using microspores.
- d) Non-vegetative multiplication of plants by using microspores and megaspores.

3. Match the following Column A Column B 1) Totipotency 2)Dedifferentiation 3) Explant C) Properties of living cells develops into entire plant C) Properties of living cells develops into entire plant C) Selected plant tissue transferred to culture medium	
a) C A D B b) A C B D c) B A D C d) D B C A 4The time duration for sterilization process by using autoclave is minutes and the temperature is a) 10 to 30 minutes and 125° C b) 15 to 30 minutes and 121° C	
c) 15 to 20 minutes and 125° C d) 10 to 20 minutes and 121° C 5. Which of the following statement is correct a) Agar is not extracted from marine algae such as seaweeds. b) Callus undergoes differentiation and produces somatic embryoids. c) Surface sterilization of explants is done by using mercuric bromide d) P <sup>H</sup> of the culture medium is 5.0 to 6.0	
<ul> <li>6.Select the incorrect statement from given statement</li> <li>a) A tonic used for cardiac arrest is obtained from Digitalis purpuria</li> <li>b) Medicine used to treat Rheumatic pain is extracted from Capsicum annum</li> <li>c) An anti malarial drug is isolated from Cinchona officinalis.</li> <li>d) Anti-cancinogenic property is not seen in Catharanthusroseus.</li> <li>7.Virus free plants are developed from</li> <li>a) Organ culture</li> <li>b) Meristem culture</li> <li>c) Protoplast culture d) Cell suspension cult</li> </ul>	ure
8. The prevention of large scale loss of biological interity a) Biopatent b) Bioethics c) Biosafety d) Biofuel 9. Cryopreservation means it is a process to preserve plant cells, tissues or organs a) at very low temperature by using ether. b) at very high temperature by using liquid nitrogen c) at very low temperature of -196 by using liquid nitrogen d) at very low temperature by using liquid nitrogen 10. Solidifying agent used in plant tissue culture is	
a) Nicotinic acid b) Cobaltous chloride c) EDTA d) Agar  6.PRIINCIPLES OF ECOLOGY  1. Arrange the correct sequence of ecological hierarchy starting from lower to higher level. a) Individual organism _ Population Landscape _ Ecosystem b) Landscape _ Ecosystem _ Biome _ Biosphere c) community _ Ecosystem _ Landscape _ Biome d) Population _ organism _ Biome _ Landscape	
<ol> <li>Ecology is the study of an individual species is called         <ol> <li>Community ecology ii) Autecology iii) Species ecology iv) Synecology</li> <li>i only b) ii only c) i and iv only d) ii and iii only</li> </ol> </li> <li>A specific place in an ecosystem, where an organism lives and performs its functions is         <ol> <li>habitat b) niche c) landscape d) biome</li> </ol> </li> <li>Read the given statements and select the correct option.         <ol> <li>Hydrophytes possess aerenchyma to support themselves in water.</li> <li>Seeds of <i>Viscum</i> are positively photoblastic as they germinate only in presence of light.</li> <li>Hygroscopic water is the only soil water available to roots of plant growing in soil as it is</li> </ol> </li> </ol>	
present inside the micropores. iv) High temperature reduces use of water and solute absorption by roots.	

- c) ii and iii only a) i, ii, and iii only b) ii, iii and iv d) i and ii only
- 5. Which of the given plant produces cardiac glycosides?
- c) Nepenthes *a)* Calotropis b) Acacia d) *Utricularia*
- 6. Read the given statements and select the correct option.
- i) Loamy soil is best suited for plant growth as it contains a mixture of silt, sand and clay.
- ii) The process of humification is slow in case of organic remains containing a large amount of lignin and cellulose.
- iii) Capillary water is the only water available to plant roots as it is present inside the micropores.
- iv) Leaves of shade plant have more total chlorophyll per reaction centre, low ratio of chla andchlb are usually thinner leaves.
- a) i, ii and iii only
- b) ii, iii and iv only c) i, ii and iv only
- d) ii and iii only
- 7. Read the given statements and select the correct option.

Statement A : Cattle do not graze on weeds of *Calotropis*.

Statement B: Calotropishave thorns and spines, as defense against herbivores.

- a) Both statements A and B are incorrect.
- b) Statement A is correct but statement B is incorrect.
- c) Both statements A and B are correct but statement B is not the correct explanation of statement A.
- d) Both statements A and B are correct and statement B is the correct explanation of statementA
- 8. In soil water available for plants is
- a) gravitational water b) chemically bound water c) capillary water d) hygroscopic water
- 9. Read the following statements and fill up the blanks with correct option.
- i) Total soil water content in soil is called
- ii) Soil water not available to plants is called
- iii) Soil water available to plants is called

	(i)	(ii)	(iii)
(a)	Holard	Echard	Chresard
(b)	Echard	Holard	Chresard
(c)	Chresard	Echard	Holard
(d)	Holard	Chresard	Echard

10. Column I represent the size of the soil particles and Column II represents type of soil components. Which of the following is correct match for the Column I and Column IL

Column - I

Column - II

- I). 0.2 to 2.00 mm
- i) Slit soil
- II) Less than 0.002 mm
- ii) Clayey soil
- III) 0.002 to 0.02 mm iii) Sandy soil
- IV) 0.002 to 0.2 mm
- iv) Loamy soil

	I	II	III	IV
(a)	ii	iii	iv	i
(b)	iv	I	iii	Ii
(c)	iii	ii	i	iv
(d)	NONE	OF	THE	ABOVE

- 11. The plant of this group are adapted to live partly in water and partly above substratum and free from water
- a) Xerophytes
- b) Mesophytes
- c) Hydrophytes
- d) Halophytes

12. Identify the A, B, C and D in the given table

Interaction	Effects on species X	Effects on species Y
Mutualism	A	(+)
В	(+)	(-)
Competition	(-)	С
D	(-)	0

	A	В	С	D
(a)	+	Parasitism	-	Amensalism
(b)	-	Mutualism	+	Competition
(c)	+	Competition	0	Mutualism
(d)	0	Amensalism	+	Parasitism

13. Ophrysan orchid resembling the female of an insect so as to able to get pollinated is due to phenomenon of

a) Myrmecophily

b) Ecological equivalents c) Mimicry

d) None of these

14. A free living nitrogen fixing cyanobacterium which can also form symbiotic association with the water fern Azolla

a) *Nostoc* 

b) Anabaena c) chlorella

d) Rhizobium

15. Pedogenesis refers to

a) Fossils

b) Water

c) Population

d) Soil

16. Mycorrhiza promotes plant growth by

a) Serving as a plant growth regulators

b) Absorbing inorganic ions from soil

c) Helping the plant in utilizing atmospheric nitrogen d) Protecting the plant from infection

17. In a fresh water environment like pond, rooted autotrophs are

a) Nymphaea and typha

b) Ceratophyllumand Utricularia

c) Wolffia and pistia

d) Azolla and lemna

18. Match the following and choose the correct combination from the options given below:

Column I (Interaction)	Column II (Examples)
I Mutualism	(i)Trichoderma and pencillium
II Commensalism	ii). Balanophora, Orobanche
III. Parasitism	iii). Orchids and Ferns
IV. Predation	iv). Lichen and Mycorrhiza
V. Amensalism	v). Nepenthes and Diaonaea

	I	II	III	IV	V
(a)	i	ii	iii	iv	V
(b)	ii	iii	iv	V	I
(c)	iii	iv	v	i	Ii
(d)	iv	iii	ii	V	I

19. Sticky glands of *Boerhaavia* and *Cleome* support

a) Anemochory

b) Zoochory c) Autochory

d) Hydrochory

## 7.ECOSYSTEM

1. Which of the following is not a abiotic component of the ecosystem?

a) Bacteria

b) Humus

c) Organic compounds

d) Inorganic compounds

2. Which of the following is / are not a natural ecosystem?

a) Forest ecosystem b) Rice field

c) Grassland ecosystem

d) Desert ecosystem

3. Pond is a type of

a) forest ecosystem

b) grassland ecosystem

c) marine ecosystem d) fresh water ecosystem

4. Pond ecosystem is

a) notself sufficient and self regulating

b) partially self sufficient and self regulating

c) self sufficient and not self regulating

d) self sufficient and self regulating

5. Profundal zone is predominated by heterotrophs in a pond ecosystem, because of

a) with effective light penetration

b) no effective light penetration

c) complete absence of light

d) a and b

6. Solar energy used by green plants for photosynthesis is only

a) 2 - 8%

b) 2 - 10%

c) 3 - 10%

d) 2 - 9%

7. Which of the following ecosystem has the highest primary productivity?

a) Pond ecosystem

b) Lake ecosystem

c) Grassland ecosystem

d) Forest ecosystem

8. Ecosystem consists of

These are respectively identified as

<ul><li>a) decomposers</li><li>9. Which one is in de</li></ul>	/ <b>1</b>	,		d) all of the above
a) ProducersSecon				
b) Tertiary consumer				
c) Tertiary consumer				
d) Tertiary consumer		_Primary cons	umers _Secondary	consumers
10. Significance of fo				
a) it does not maintai			ows patterns of end	ergy transfer
c) it explains species		d) b an	d c	
11. The following dia	agram represents	S		
	т,			
anta a	т.			
ALC O				
ATTA I	₹ 1			
A				
T I	1			(/)
GS Scanned with Carolinary				
		. 1	:1 0 1	
				er in a pond ecosystem
c) pyramid of number				
12. Which of the foll	-			
a) Eluviation	b) Catabolism		Anabolism d) l	Fragmentation
13. Which of the foll				7.1.' 1
a) Nitrogen cycle	b) Phosphorou		Sulphur cycle d) (	
<ul><li>14. Which of the foll</li><li>i) Genetic resources</li></ul>	owing are not re	egulating service	es of ecosystem se	rvices
ii) Recreation and ae	sthatia valuas			
iii) Invasion resistant				
iv) Climatic regulation				
a) i and iii	b) ii and iv		c) i and ii	d) i and iv
u) Tunu III	o) ii uliu i v		(C) 1 and 11	a) rana r
8.ENVIRONMENTA	AL ISSUE			
1. Which of the follo	wing would mo	st likely help to	slow down the gre	eenhouse effect.
a) Converting tropica	_			
b) Ensuring that all e	_	_		
c) Redesigning landf	ill dumps to allo	w methane to l	e collected.	
d) Promoting the use	of private rathe	r than public tr	ansport.	
2. With respect to Eigen	chhornia			
Statement A: It drain				anding water.
Statement B: It is an			=	
a) Statement A is cor				
b) Both Statements A				
c) Statement A is cor		_		
d) Both statements A		g		
3. Find the wrongly i	natched pair.	<b>G</b> :	٠	1 . C 1 1 1
a) Endemism		-	_	d not found anywhere else
b) Hotspots	:	- Western gha		
c) Ex-situ Conservati	ion	- Zoological p		
d) Sacred groves		- Saintri hills	•	
e) Alien sp.of India	ich gos in the	- Water hyacir		eased incidence of skin
cancer?	ion gas in the	annosphere ca	n icau io ali ilici	cased meldence of Skill
a) Ammonia	b) Methane		c) Nitrous oxide	d) Ozone

5. One green house gas contributes 14% of total global warming and another contributes 6%.

<ul> <li>a) N<sub>2</sub>0 and CO<sub>2</sub></li> <li>b) CFCs and N<sub>2</sub>0</li> <li>6. One of the chief reasons among the following</li> </ul>	, , , , , , , , , , , , , , , , , , ,
making endangered is	
a) over hunting and poaching	b) green house effect
c) competition and predation	d) habitat destruction
7. Deforestation means	
a)growing plants and trees in an area where ther	e is no forest
b)growing plants and trees in an area where the	
c) growing plants and trees in a pond	
d) removal of plants and trees	
8. Deforestation does not lead to	
a) Quick nutrient cycling b)	soil erosion
c) alternation of local weather conditions	d)Destruction of natural habitat weather
conditions	
9. The unit for measuring ozone thickness	
a) Joule b) Kilos	c) Dobson d) Watt
10. People's movement for the protection of env	rironment in Sirsi of Karnataka is
a) Chipko movement	b) Amirtha Devi Bishwas movement
c) Appiko movement	d) None of the above
11. The plants which are grown in silivpasture s	ystem are
a) Sesbania and Acacia	b) Solenum and Crotalaria
c) Clitoria and Begonia	d) Teak and sandal
	\'O'
9.PLANT BREEDING	
1. Assertion: Genetic variation provides the raw	material for selection
Reason: Genetic variations are differences in §	genotypes of the individuals.
a. Assertion is right and reason is wrong.	
b. Assertion is wrong and reason is right.	
c.Both reason and assertion is right.	
d.Both reason and assertion is wrong.	
2. While studying the history of domestication	n of various cultivated plants were
recognized earlier	,
a.Centres of origin b.Centres of domesticatio	n c.Centres of hybrid d.Centres of variation
3. Pick out the odd pair.	
a. Mass selection - Morphological characters b.I	
c.Clonal selection - Sexually propagated d.Nat	ural selection - Involves nature
4.Match Column I with Column II	
Column II Column II	
i)William S. Gaud I) Heterosis	
ii) Shull II) Mutation breeding	
iii) Cotton Mather III) Green revolution	
iv) Muller and Stadler IV) Natural hybridization	
	i - III, $ii - I$ , $iii - IV$ , $iv - II$
	– II, ii – IV, iii – III, iv – I
5The quickest method of plant breeding is	
· · · · · · · · · · · · · · · · · · ·	Tybridizationd) Mutation breeding
6.Desired improved variety of economically use	<u>.</u>
a. Natural Selection b) hybridization c.mutation	
7.Plants having similar genotypes produced by p	<del>-</del>
, <b>1</b>	utopolyploid d) genome
8.Importing better varieties and plants from	outside and acclimatising them to local
environment is called	
,	election d) introduction
9. Dwarfing gene of wheat is	
a.pal 1 b) Atomita 1 c.N	Iorin 10 d) pelita 2

- 10. Crosses between the plants of the same variety are called
- a) interspecific
- b) inter varietal
- c) intra varietal
- d) inter generic
- 11. Progeny obtained as a result of repeated self pollination a cross pollinated crop to called
- a) pure line
- b) pedigree line
- c) inbreed line
- d) heterosis

- 12Jaya and Ratna are the semi dwarf varieties of
- a) wheat
- b) rice
- c) cowpea
- d) mustard
- 13. Which one of the following are the species that are crossed to give sugarcane varieties with high sugar, high yield, thick stems and ability to grow in the sugarcane belt of North India?
- a) Saccharumro bustum and Saccharum officinarum
- b) Saccharum barberi and Saccharum officinarum
- c) Saccharum sinense and Saccharum officinarum
- d) Saccharum barberi and Saccharum robustum
- 14.Match column I (crop) with column II (Corresponding disease resistant variety) and select the correct option from the given codes.

Column I

Column II

- I) Cowpea
- i) Himgiri
- II) Wheat

ii) Pusa komal

III) Chilli

- iii) Pusa Sadabahar
- IV) Brassica
- iv) Pusa Swarni
- I II III IV
- a) iv iii ii i
- b) ii i iii iv
- c) ii iv i iii
- d) i iii iv ii
- 15.A wheat variety, Atlas 66 which has been used as a donor for improving cultivated wheat, which is rich in
- a) iron
- b) carbohydrates
- c) proteins
- d) vitamins
- 16. Which one of the following crop varieties correct matches with its resistance to a disease?

Variety	Resistance to disease
a) Pusa Komal	Bacterial blight
b) Pusa Sadabahar	White rust
c) Pusa Shubhra	Chilli mosaic virus
d) Brassica	Pusaswarnim

- 17. Which of the following is incorrectly paired?
- a) Wheat
- Himgiri
- b) Milch breedc) Rice
- SahiwalRatna
- d) PusaKomal Brassica
- 18.Match list I with list II

List I	List II
Biofertilizer	Organisms
i) Free living N <sub>2</sub>	a) Aspergillus
ii) Symbiotic N <sub>2</sub>	b) Amanita
iii) P Solubilizing	c)Anabaena azollae
iv) P Mobilizing	d) Azotobactor

- a. ic, iia, iiib, ivd
- b. id, ii c, iii a, iv b.
- c. ia, iic, iiib, ivd
- d ib, iia, iiid, ivc

#### 10. ECONOMICALLY USEFUL PLANTS AND ENTREPRENEURIAL BOTANY

- 1. Consider the following statements and choose the right option.
- i) Cereals are members of grass family.
- ii) Most of the food grains come from monocotyledon.
- a) (i) is correct and (ii) is wrong
- b) Both (i) and (ii) are correct
- c) (i) is wrong and (ii) is correct
- d) Both (i) and (ii) are wrong

2. Assertion: Vegetables are important part Reason: Vegetables are succulent structures		aroma and flavours
a) Assertion is correct, Reason is wrong	of plants with picasant	aroma and mayours.
,		
b) Assertion is wrong, Reason is correct	1ti	
c) Both are correct and reason is the correct	1	
d) Both are correct and reason is not the cor	rect explanation for ass	ertion.
3. Groundnut is native of	) NT - d - A '	1) D '1
a) Philippines b) India	c) North America	d) Brazil
4. Statement A: Coffee contains caffeine		
Statement B: Drinking coffee enhances cand	er	
a) A is correct, B is wrong		
b) A and B – Both are correct		
c) A is wrong, B is correct		
d) A and B – Both are wrong		
5. Tectonagrandisis coming under family	`~.	0.77
a) Lamiaceae b) Fabaceae	c) Dipterocaipaceae	d) Ebenaceae
6. <i>Tamarindusindica</i> is indigenous to		
a) Tropical African region	b) South India, Sri La	ınka
c) South America, Greece	d) India alone	
7. New world species of cotton		
a) Gossipium arboretum b) G.herbaceum		d) G.barbadense
8. Assertion: Turmeric fights various kinds		
Reason: Curcumin is an anti-oxidant presen		
a) Assertion is correct, Reason is wrong	b) Assertion is wrong,	
c) Both are correct	d) Both are wr	ong
9. Find out the correctly matched pair.		
a) Rubber <i>Shorearobusta</i>	b) Dye <i>Lawsoniainer</i>	
c) Timber <i>Cyperus papyrus</i>	d) Pulp Heveabrasili	ensis
10. Observe the following statements and pi	<u> </u>	from the following:
Statement I – Perfumes are manufactured fr	om essential oils.	
Statement II – Essential oils are formed at d	ifferent parts of the plan	nts.
a) Statement I is correct	b) Statement II is corr	
c) Both statements are correct	d) Both statements are	ewrong
11. Observe the following statements and pi	ck out the right option	from the following:
Statement I: The drug sources of Siddha inc	lude plants, animal part	ts, ores and minerals.
Statement II: Minerals are used for preparin	g drugs with long shelf	-life.
a) Statement I is correct		
b) Statement II is correct		
c) Both statements are correct		
d) Both statements are wrong		
12. The active principle trans-tetra hydro ca	nabial is present in	
a) Opium b) Curcuma	c) Marijuana	d) Andrographis
13. Which one of the following matches is o	orrect?	- *
a) Palmyra - Native of Brazil	b) Saccharun - Abund	ant in Kanyakumari
c) Steveocide - Natural sweetener	d) Palmyra sap - Ferm	<u> </u>
,	, , ,	J

# HSC Second Year BIO – ZOOLOGY

One mark questions(book back)

13. Find the wrongly matched pair

# 1.REPRODUCTION IN ORGANISMS

produced?	
c) Amphitoky	d) Both a and b
, -	•
ion c) Conjugation	d) Zoospore formation
n	
	d) Both a and b
	,
•	
ation for A	
•	
duction are genetically	identical to the parent
_	
ation for A	
explanation for A	<b>♦</b>
c. Epididymis d. Sen	ninal vesicle
rom	
c. Epididymis	d. Prostate gland
ne largest proportion of	f semen is
nd c. Prostate gland	d. Mucous gland
c. Urethra	d.Testis
. Vagina	d. Fallopian tube
umbilical cord is	
	d. Yolk sac
intaining lactation afte	er birth is
c. Prolactin	d. Oxytocin
b. Microlecithal and	non cleidoic
cithal and cleidoic	
penetrating the ovum is	S
c. Spermiogenesis	d. Capacitation
n after child birth is cal	led
	d. Sucrose
	<b>a.</b> 2 <b>a.</b> 21 a a a
. I. D	1 I. M
•	d. Ig M
ced by	
c. Sertoli cells d. Pitu	uitary gland
	c. Epididymis d. Senton c. Urethra  c. Vagina umbilical cord is c. Chorion intaining lactation after c. Prolactin  b. Microlecithal and ceithal and cleidoic penetrating the ovum i c. Spermiogenesis after child birth is cal c. Lactose  c. Ig D ced by

a.Bleeding phase - fall in oestrogen and progesterone

b. Follicular phasec. Luteal phaserise in oestrogenrise in FSH level

d. Ovulatory phase - LH surge

14. A – In human male, testes are extra abdominal and lie in scrotal sacs.

R – Scrotum acts as thermoregulator and keeps temperature lower by 2°C for normal sperm production

- (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
- 15. A Ovulation is the release of ovum from the Graafian follicle.
- R It occurs during the follicular phase of the menstrual cycle.
- 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
- 16. A Head of the sperm consists of acrosome and mitochondria.
- R Acrosome contains spiral rows of mitochondria.
- 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

### 3. REPRODUCTIVE HEALTH

- 1. Which of the following is correct regarding HIV, hepatitis B, gonorrhoea and trichomoniasis?
- (a) Gonorrhoea is a STD whereas others are not.
- (b) Trichomoniasis is a viral disease whereas others are bacterial.
- (c) HIV is a pathogen whereas others are diseases.
- (d) Hepatitis B is eradicated completely whereas others are not.
- 2. Which one of the following groups includes sexually transmitted diseases caused by bacteria only?
- (a) Syphilis, gonorrhoea and candidiasis (b) Syphilis, chlamydiasis and gonorrhoea
- (c) Syphilis, gonorrhoea and trichomoniasis (d) Syphilis, trichomoniasis and pediculosis
- 3. Identify the correct statements from the following
- (a) Chlamydiasis is a viral disease.
- (b) Gonorrhoea is caused by a spirochaete bacterium, Treponema palladium.
- (c) The incubation period for syphilis is 2 to 14 days in males and 7 to 21 dys in females
- (d) Both syphilis and gonorrhoea are easily cured with antibiotics.
- 4. A contraceptive pill prevents ovulation by
- (a) blocking fallopian tube
- (b) inhibiting release of FSH and LH
- (c) stimulating release of FSH and LH
- (d) causing immediate degeneration of released ovum.

\ /	<u> </u>			
5. The a	5. The approach which does not give the defined action of contraceptive is			
(a)	Hormonal contraceptive	Prevents entry of sperms, prevent ovulation and fertilization		
(b)	Vasectomy	Prevents spermatogenesis		
(c)	Barrier method	Prevents fertilization		
(d)	Intra uterine device	Increases phagocytosis of sperms, suppresses sperm motility and fertilizing capacity of sperms		

6.Read the given statements and select the correct option.

Statement 1: Diaphragms, cervical caps and vaults are made of rubber and are inserted into the female reproductive tract to cover the cervix before coitus.

Statement 2: They are chemical barriers of conception and are reusable.

(a) Both statements 1 and 2 are correct and statement 2 is the correct explanation of statement 1.

- (b) Both statements 1 and 2 are correct but statement 2 is not the correct explanation of statement 1.
- (c) Statement 1 is correct but statement 2 is incorrect.
- (d) Both statements 1 and 2 are incorrect.
- 7. Match column I with column II and select the correct option from the codes given below.

Column I	Column II
A. Copper releasing IUD	(i) LNG-20
B. Hormone releasing	(ii) Lippes loop IUD
C. Non medicated IUD	(iii) Saheli
D. Mini pills	(iv) Multiload-375

- (a) A-(iv), B-(ii), C-(i), D-(iii)
- (b) A-(iv), B-(i), C-(iii), D-(ii)
- (c) A-(i), B-(iv), C-(ii), D-(iii)
- (d) A-(iv), B-(i), C-(ii), D-(iii)
- 8. Select the incorrect action of hormonal contraceptive pills from the following
- (a) Inhibition of spermatogenesis.
- (b) Inhibition of ovulation.
- (c) Changes in cervical mucus impairing its ability to allow passage and transport of sperms.
- (d) Alteration in uterine endometrium to make it unsuitable for implantation.

## 4. PRINCIPLES OF INHERITANCE AND VARIATION

- 1. 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
- 2. ABO blood group in man is controlled by
- a) Multiple alleles
- b) Lethal genes
- c) Sex linked genes
- d) Y-linked genes
- 3. Three children of a family have blood groups A, AB and B. What could be the genotypes of their parents?
- a) I<sup>A</sup> I<sup>B</sup> and ii
- b)  $I^A I^o$  and  $I^B I^o$
- c) I<sup>B</sup> I<sup>B</sup> and I<sup>A</sup> I<sup>A</sup>
- d) I<sup>A</sup> I<sup>A</sup> and ii

- 4. Which of the following is not correct?
- a. Three or more alleles of a trait in the population are called multiple alleles.
- b.A normal gene undergoes mutations to form many alleles
- c.Multiple alleles map at different loci of a chromosome
- d. A diploid organism has only two alleles out of many in the population
- 5. Which of the following phenotypes in the progeny are possible from the parental combination
- a. AxB?A and B only
- b. A,B and AB only c. AB only
- d. A,B,AB and O
- 6. Which of the following phenotypes is not possible in the progeny of the parental genotypic combination  $I^AI^O \times I^AI^B$ ?
- a) AB

- b) O
- c) A
- d) B
- 7. Which of the following is true about Rh factor in the progeny of the parental genotypic combination DdXDd(both Rh positive)
- a)All will be Rh-positive

b) Half will be Rh positive

c) About 3/4 will be Rh negative

- d) About one fourth will be Rh negative
- 8. What can be the blood group of offspring when both parents have AB blood group?
- a) AB only

- b) A, B and AB
- c) A, B, AB and O
- d) A and B only
- 9. If the childs blood group is 'O' and fathers blood group is 'A' and mother's blood group is 'B' the genotype of the parents will be
- a)  $I^A I^A$  and  $I^B I^O$
- b) I<sup>A</sup> I<sup>o</sup> and I<sup>B</sup> I<sup>o</sup>
- c) I<sup>A</sup> I<sup>o</sup> and I<sup>o</sup>I<sup>o</sup>
- d) I'I' and I' I'
- 10. XO type of sex determination and XY type of sex determination are examples of
- a) Male heterogamety
- b) Female heterogamety c) Male homogamety d) Both (b) and (c)
- 11. In an accident there is great loss of blood and there is no time to analyse the blood group which blood can be safely transferred?

a) 'O' and Rh negative b) 'O' and Rh positi	ve c)'B' and Rh ne	gative d) 'AB' and Rh positive
12. Father of a child is colourblind and mother is c	arrier for colourbli	ndness, the probability of the
child being colourblind is		
a. 25% b) 50%	c) 100%	d) 75%
13. A marriage between a colourblind man and a n	ormal woman proc	luces
A. All carrier daughters and normal sons	-	
B. 50% carrier daughters, 50% normal daughters		
C. 50% colourblind sons, 50% normal sons		
D. All carrier offsprings		
14. Mangolism is a genetic disorder which is cause	ed by the presence	of an extra chromosome
number	• •	
A. 20 b) 21	c) 4	d) 23
15. Klinefelters' syndrome is characterized by a ka	,	,
a.XYY b) XO	c) XXX	d) XXY
16. Females with Turners' syndrome have	,	
	ries c) Underdevelo	oped breasts d) All of these
17. Pataus' syndrome is also referred to as		
a).13-Trisomy b) 18-Trisormy c) 21-	-Trisormy d	None of these
18. "Universal Donor" and "Universal Recipients"	•	
a).AB, O b) O, AB	c) A, B	d) B, A
19. ZW-ZZ system of sex determination occurs in	c) 11, D	4) 2, 11
a). Fishes b) Reptiles	c) Birds	d) All of these
20. Co-dominant blood group is	c) Birds	d) 7 Hi of these
a).A b) AB	c) B	d) O
21. Which of the following is incorrect regarding 2		,
A .It occurs in birds and some reptiles	LW-ZZ type of sex	determination:
b .Females are homogametic and males are heterog	romotio	
c. Male produce two types of gametes	gametic	
d .It occurs in gypsy moth		
5. MOLECULAR GENETICS		
	and all arrived that	
1. Hershey and Chase experiment with bacteriopha		
a) Protein gets into the bacterial cells		
c) DNA contains radioactive sulphur	a) viruses under	go transformation
2. DNA and RNA are similar with respect to		
a) Thymine as a nitrogen base		
b) A single-stranded helix shape	1 1 1 4	
c) Nucleotide containing sugars, nitrogen bases an		
d) The same sequence of nucleotides for the amino	acia pnenyi alanli	ne e
3. A mRNA molecule is produced by	) D 1' 4'	1) T 1 .:
a) Replication b) Transcription	c) Duplication	d) Translation
4. The total number of nitrogenous bases in humar	_	
a) 3.5 million b) 35000	c) 35 million	d) 3.1 billion
5. E. coli cell grown on 15N medium are transferre		
generations. DNA extracted from these cells is ultr	_	• •
What density distribution of DNA would you expe		
(a) One high and one low density band.	* *	liate density band.
c) One high and one intermediate density band.	* *	
6. What is the basis for the difference in the synthe	esis of the leading a	and lagging strand of DNA
molecules?		
(a) Origin of replication occurs only at the 5' end		
(b) DNA ligase works only in the $3' \rightarrow 5'$ direction		
(c) DNA polymerase can join new nucleotides only		
(d) Helicases and single-strand binding proteins th		
7 Which of the following is the correct sequence of	of arrant with mafana	man to the control dogma?

<ul><li>(a) Transcription, Translation, Replication</li><li>(c) Duplication, Translation, Transcription</li><li>8. Which of the following statements about DNA re</li></ul>	(d) Replication, Tran	eplication, Translation scription, Translation
(a) Unwinding of DNA molecule occurs as hydroge	±	t:
(b) Replication occurs as each base is paired with an		
(c) Process is known as semi conservative replication		and is conserved in the new
molecule.	on because one ord sur	and is conserved in the new
	h hydrogen hende	
(d) Complementary base pairs are held together with 9. Which of the following statements is not true about 10 cm.	ut DNA replication in	eukaryotes?
(a) Replication begins at a single origin of replication	on.	
(b) Replication is bidirectional from the origins.		
(c) Replication occurs at about 1 million base pairs		
(d) There are numerous different bacterial chromoso	omes, with replication	ocurring in each at the
same time.		
10. The first codon to be deciphered was	which codes for	· · · · · · · · · · · · · · · · · · ·
(a) AAA, proline (b) GGG, alanine 11. Meselson and Stahl's experiment proved	(c) UUU, Phenylalan	ine (d)TTT, arginine
(a)Transduction	(b) Transformation	
(c) DNA is the genetic material	(d) Semi-conservativ	e nature of DNA
replication	<b>*</b>	
13. An operon is a:		<b>♦</b>
(a) Protein that suppresses gene expression	(b) Protein that accele	erates gene expression
(c) Cluster of structural genes with related function	(d) Gene that switch	ed other genes on or off
14. When lactose is present in the culture medium:		
(a) Transcription of <i>lac y, lac z, lac a</i> genes occurs.	b)Repressor is unable	e to bind to the operator
c) Repressor is able to bind to the operator	d)Both (a) and (b) are	e correct
6.EVOLUTION		
1) The first life on earth originated		
a) in air b) on land	c) in water	d) on mountain
2) Who published the book "Origin of species by N		
a) Charles Darwin b) Lamarck	c) Weismann d) Hu	go de Vries
3) Which of the following was the contribution of H		
a) Theory of mutation	b) Theory of natural	Selection
c) Theory of inheritance of acquired characters d) G		
4) The wings of birds and butterflies is an example		
a) Adaptive radiation	b) convergent evolution	ion
c) divergent evolution	d) variation	
5) The phenomenon of "Industrial Melanism" demo		
a) Natural selection	b) induced mutation	.•
c) reproductive isolation	d) geographical isola	tion
6) Darwin's finches are an excellent example of	1.	
a) connecting links	b) seasonal migration	1
c) adaptive radiation	d) parasitism	
7. Who proposed the Germplasm theory?	) T 1	1) 410 1337 11
a) Darwin b) August Weismann	c) Lamarck	d) Alfred Wallace
8) The age of fossils can be determined by	) 1 1	1) 1 ' (1
<ul><li>a) electron microscope b) weighing the fossils</li><li>9) Fossils are generally found in</li></ul>	c) carbon dating	d) analysis of bones
a) igneous rocks b) metamorphic rocks	c) volcanic rocks	d) sedimentary rocks
10) Evolutionary history of an organism is called		10 1
<ul><li>a) ancestry</li><li>b) ontogeny</li><li>11) The golden age of reptiles was</li></ul>	c) phylogeny	d) paleontology
a) Mesozoic era b) Cenozoic era 12) Which period was called "Age of fishes"?	c) Paleozoic era	d) Proterozoic era

a) Permian b) Triassic c) Devonian d) Ordovician  13) Modern man belongs to which period? a) Quaternary b) Cretaceous c) Silurian d) Cambrian  14) The Neanderthal man had the brain capacity of a) 650 800cc b) 1200cc c) 900cc d) 1400cc  15) According to Darwin, the organic evolution is due to a) Interspecific competition b) Interspecific competition c) Competition within closely related species d) Reduced feeding efficiency in one species due to the presence of interfering species  16) A population will not exist in Hardy-Weinberg equilibrium if a) Individuals mate selectively c) There is no migration d) The population is large  7. HUMAN HEALTH AND DISEASES  1. A 30 year old woman has bleedy diarrhoea for the past 14 hours, which one of the following organisms is likely to cause this illness?  A. Streptococcus progens B. Clostridium difficile C Shigella dysenteriae D. Salmonella enteritidis  2. Exo-erythrocytic schizogony of Plasmodium takes place in ———————————————————————————————————			
a) Quaternary b) Cretaceous c) Silurian d) Cambrian 14) The Neanderthal man had the brain capacity of a) 650 – 800cc b) 1200cc c) 900cc d) 1400cc 15) According to Darwin ,the organic evolution is due to a) Intraspecific competition c) Competition within closely related species d) Reduced feeding efficiency in one species due to the presence of interfering species 16) A population will not exist in Hardy-Weinberg equilibrium if a) Individuals mate selectively b) There are no mutations c) There is no migration d) The population is large 7. HUMAN HEALTH AND DISEASES 1. A 30 year old woman has bleedy diarrhoea for the past 14 hours, which one of the following organisms is likely to cause this illness? A. Sireptococcus progens B. Clostridium difficile C Shigella dysenteriae D. Salmonella entertitidis 2. Exo-erythrocytic schizogony of Plasmodium takes place in ———————————————————————————————————		c) Devonian	d) Ordovician
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13. AIDS virus has	<u>.</u>		d) Malignant neonlasm
	,	,	, <b>5</b> 11 <b>0</b> 0 p 1 <b>0</b> 0 l 1
	a) Single stranded RNA	b) Double stranded	RNA

c) Single stranded D		d) Double stranded	
-	ace and release large amount	•	
a) Memory cells	b) Basophils	c) Plasma cells	d) killer cells
8. MICROBES IN H	IUMAN WELFARE		
1. Which of the follo	wing microorganism is used	for production of citric	acid in industries?
a) Lactobacillus bulg	garis	b) Penicillium citrin	num
c) Aspergillus niger		d) Rhizopus nigrica	ns
2. Which of the follo	wing pair is correctly matche	ed for the product produ	uced by them?
a) Acetobacter aceti	- Antibiotics	b) Methanobacteriu	m - Lactic acid
c) Penicilium notatui	m - Acetic acid	d) Saccharomyces c	erevisiae - Ethanol
3. The most common	n substrate used in distilleries	-	
a) Soyameal	b) Groundgram	c) Molasses	d) Corn meal
4. Cyclosporin – A is	s an immunosuppressive drug	g produced from	_
a) Aspergillus niger		b) Manascus purpui	
c) Penicillium notatu		d) Trichoderma poly	ysporum
5. CO <sub>2</sub> is not release	<u> </u>		
a) Alcoholic ferment		b) Lactate fermentat	
c) Aerobic respiratio		d) Aerobic respirati	ion in plants
	ological treatment of waste w		
a) Reduce BOD	b) Increase BOD	c) Reduce sediments	ation d) Increase
sedimentation			
<u> </u>	ed in anaerobic sludge digeste	ers are	
	and hydrogen sulphide.		
, , ,	e, methane and sulphur dioxi	de.	
, , ,	e, nitrogen and methane.		
d) Methane, hydroge	en sulphide and CO <sup>2</sup> .		
9. APPLICATIONS	OF BIOTECHNOLOGY	7	
	OF BIOTECHNOLOGY gene therapy was done for the	treatment of	
		treatment of c) Cystic fibrosis	d) SCID
1. The first clinical g a) AIDS	gene therapy was done for the	c) Cystic fibrosis	d) SCID
1. The first clinical g a) AIDS	gene therapy was done for the b) Cancer was obtained by a technique k	c) Cystic fibrosis	,
<ol> <li>The first clinical g</li> <li>AIDS</li> <li>Dolly, the sheep w</li> <li>Cloning by gene to</li> </ol>	gene therapy was done for the b) Cancer was obtained by a technique k	c) Cystic fibrosis nown as	the help of gametes
<ol> <li>The first clinical g</li> <li>AIDS</li> <li>Dolly, the sheep w</li> <li>Cloning by gene to</li> <li>Cloning by tissue</li> </ol>	gene therapy was done for the b) Cancer was obtained by a technique k ransfer	c) Cystic fibrosis nown as b) Cloning without a d) Cloning by nucle	the help of gametes ar transfer.
<ol> <li>The first clinical g</li> <li>AIDS</li> <li>Dolly, the sheep w</li> <li>Cloning by gene to</li> <li>Cloning by tissue</li> <li>The genetic defect</li> <li>Enzyme replacement</li> </ol>	gene therapy was done for the b) Cancer was obtained by a technique k ransfer culture of somatic cells adenosine deaminase deficient therapy	c) Cystic fibrosis nown as b) Cloning without to d) Cloning by nucle ency may be cured perm	the help of gametes ar transfer. manently by
<ol> <li>The first clinical g</li> <li>AIDS</li> <li>Dolly, the sheep w</li> <li>Cloning by gene to</li> <li>Cloning by tissue</li> <li>The genetic defect</li> <li>Enzyme replacement</li> </ol>	gene therapy was done for the b) Cancer vas obtained by a technique k ransfer culture of somatic cells t adenosine deaminase deficie	c) Cystic fibrosis nown as b) Cloning without to d) Cloning by nucle ency may be cured perm	the help of gametes ar transfer. manently by
<ol> <li>The first clinical g</li> <li>AIDS</li> <li>Dolly, the sheep w</li> <li>Cloning by gene to</li> <li>Cloning by tissue</li> <li>The genetic defect</li> <li>Enzyme replacement</li> <li>periodic infusion of</li> <li>administering aden</li> </ol>	gene therapy was done for the b) Cancer was obtained by a technique k ransfer culture of somatic cells adenosine deaminase deficient therapy of genetically engineered lymnosine deaminase activators	c) Cystic fibrosis nown as b) Cloning without the distribution of the control of	the help of gametes ar transfer. nanently by cDNA
<ol> <li>The first clinical g</li> <li>AIDS</li> <li>Dolly, the sheep w</li> <li>Cloning by gene to</li> <li>Cloning by tissue</li> <li>The genetic defect</li> <li>Enzyme replacement</li> <li>periodic infusion oc</li> <li>administering ader</li> <li>introducing bone</li> </ol>	gene therapy was done for the b) Cancer vas obtained by a technique k ransfer culture of somatic cells adenosine deaminase deficient therapy of genetically engineered lynnosine deaminase activators marrow cells producing ADA	c) Cystic fibrosis nown as b) Cloning without to d) Cloning by nucle ency may be cured perr aphocytes having ADA into embryo at an earl	the help of gametes ar transfer. nanently by cDNA
<ol> <li>The first clinical g</li> <li>AIDS</li> <li>Dolly, the sheep w</li> <li>Cloning by gene to</li> <li>Cloning by tissue</li> <li>The genetic defect</li> <li>Enzyme replacement</li> <li>periodic infusion of</li> <li>administering aden</li> <li>introducing bone of</li> <li>How many amino</li> </ol>	gene therapy was done for the b) Cancer vas obtained by a technique k ransfer culture of somatic cells adenosine deaminase deficient therapy of genetically engineered lymnosine deaminase activators marrow cells producing ADA acids are arranged in the two	c) Cystic fibrosis nown as b) Cloning without to d) Cloning by nucle ency may be cured perr aphocytes having ADA into embryo at an earl	the help of gametes ar transfer. nanently by cDNA
1. The first clinical g a) AIDS 2. Dolly, the sheep w a) Cloning by gene to c) Cloning by tissue 3. The genetic defect a) Enzyme replacement b) periodic infusion oc c) administering ade d) introducing bone of 4. How many amino a) Chain A has 12 and	gene therapy was done for the b) Cancer was obtained by a technique k ransfer culture of somatic cells adenosine deaminase deficient therapy of genetically engineered lynnosine deaminase activators marrow cells producing ADA acids are arranged in the two ad Chain B has 13	c) Cystic fibrosis nown as b) Cloning without the distribution of Cloning by nucle ency may be cured performance to the control of the contro	the help of gametes ar transfer. nanently by cDNA
1. The first clinical g a) AIDS 2. Dolly, the sheep w a) Cloning by gene to c) Cloning by tissue 3. The genetic defect a) Enzyme replacement b) periodic infusion oc c) administering ader d) introducing bone of 4. How many amino a) Chain A has 12 and b) Chain A has 21 and	gene therapy was done for the b) Cancer vas obtained by a technique k ransfer culture of somatic cells adenosine deaminase deficient therapy of genetically engineered lymnosine deaminase activators marrow cells producing ADA acids are arranged in the two ad Chain B has 13 and Chain B has 30 amino acid	c) Cystic fibrosis nown as b) Cloning without to d) Cloning by nucle ency may be cured perr aphocytes having ADA a into embryo at an earl o chains of Insulin?	the help of gametes ar transfer. nanently by cDNA
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1. The first clinical g a) AIDS 2. Dolly, the sheep w a) Cloning by gene to c) Cloning by tissue 3. The genetic defect a) Enzyme replacement b) periodic infusion oc c) administering ader d) introducing bone of 4. How many amino a) Chain A has 12 and b) Chain A has 21 and c) Chain A has 20 and d) Chain A has 12 and	gene therapy was done for the b) Cancer vas obtained by a technique k ransfer culture of somatic cells adenosine deaminase deficient therapy of genetically engineered lynnosine deaminase activators marrow cells producing ADA acids are arranged in the two ad Chain B has 30 amino acid and chain B has 30 amino acid and chain B has 20 amino acid and chain B has 20 amino acid	c) Cystic fibrosis nown as b) Cloning without to d) Cloning by nucle ency may be cured perr aphocytes having ADA a into embryo at an earl o chains of Insulin? ds s s.	the help of gametes ar transfer. manently by cDNA ly stage of development.
1. The first clinical g a) AIDS 2. Dolly, the sheep w a) Cloning by gene to c) Cloning by tissue 3. The genetic defect a) Enzyme replacement b) periodic infusion oc c) administering ader d) introducing bone of 4. How many amino a) Chain A has 12 and b) Chain A has 21 and c) Chain A has 20 and d) Chain A has 12 and 5. PCR proceeds in to	gene therapy was done for the b) Cancer vas obtained by a technique k ransfer culture of somatic cells adenosine deaminase deficient therapy of genetically engineered lymnosine deaminase activators marrow cells producing ADA acids are arranged in the two ad Chain B has 13 and Chain B has 30 amino acid and chain B has 20 amino acid and chain B has 20 amino acid three distinct steps governed by	c) Cystic fibrosis nown as b) Cloning without to d) Cloning by nucle ency may be cured perr aphocytes having ADA a into embryo at an earl o chains of Insulin? ds s s by temperature, they ar	the help of gametes ar transfer. manently by cDNA ly stage of development.
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1. The first clinical g a) AIDS 2. Dolly, the sheep w a) Cloning by gene to c) Cloning by tissue 3. The genetic defect a) Enzyme replacement b) periodic infusion oc c) administering ade d) introducing bone of 4. How many amino a) Chain A has 12 and b) Chain A has 21 and c) Chain A has 20 and d) Chain A has 12 and 5. PCR proceeds in t a) Denaturation, Anne c) Annealing, Synthes 6. Which one of the a) It is used to ligate	gene therapy was done for the b) Cancer vas obtained by a technique k ransfer culture of somatic cells adenosine deaminase deficient therapy of genetically engineered lymnosine deaminase activators marrow cells producing ADA acids are arranged in the two ad Chain B has 13 and Chain B has 30 amino acid and chain B has 30 amino acid and chain B has 20 amino acid three distinct steps governed bealing, Synthesis asis, Denaturation following statements is true reintroduced DNA in recipient	c) Cystic fibrosis nown as b) Cloning without a d) Cloning by nucle ency may be cured perr aphocytes having ADA a into embryo at an earl o chains of Insulin? ds s s by temperature, they ar b) Synthesis, Anneal d)Denaturation, Synthesis and Donaturation, Synthesis and Donaturation are garding DNA polymer cells b) It serves as a server.	the help of gametes ar transfer. manently by  cDNA  ly stage of development.  e in order of ling,Denaturation. thesis,Annealing rase used in PCR? selectable marker
1. The first clinical g a) AIDS 2. Dolly, the sheep w a) Cloning by gene to c) Cloning by tissue 3. The genetic defect a) Enzyme replacement b) periodic infusion oc c) administering aden d) introducing bone of 4. How many amino a) Chain A has 12 an b) Chain A has 21 an c) Chain A has 20 an d) Chain A has 12 an 5. PCR proceeds in t a) Denaturation, Anne c) Annealing, Synthes 6. Which one of the a) It is used to ligate c) It is isolated from	gene therapy was done for the b) Cancer vas obtained by a technique k ransfer culture of somatic cells adenosine deaminase deficient therapy of genetically engineered lynnosine deaminase activators marrow cells producing ADA acids are arranged in the two ad Chain B has 13 and Chain B has 30 amino acid and chain B has 30 amino acid and chain B has 20 amino acid hree distinct steps governed bealing, Synthesis sis, Denaturation following statements is true reintroduced DNA in recipient a Virus	c) Cystic fibrosis nown as b) Cloning without a d) Cloning by nucle ency may be cured perr aphocytes having ADA a into embryo at an earl o chains of Insulin? ds s s by temperature, they ar b) Synthesis, Anneal d)Denaturation, Synthesis and Donaturation, Synthesis and Donaturation are garding DNA polymer cells b) It serves as a server.	the help of gametes ar transfer. manently by  cDNA  ly stage of development.  e in order of ling,Denaturation. thesis,Annealing rase used in PCR?
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1. The first clinical g a) AIDS 2. Dolly, the sheep w a) Cloning by gene to c) Cloning by tissue 3. The genetic defect a) Enzyme replacement b) periodic infusion oc c) administering aden d) introducing bone of 4. How many amino a) Chain A has 12 and b) Chain A has 21 and c) Chain A has 20 and d) Chain A has 12 and 5. PCR proceeds in t a) Denaturation, Anne c) Annealing, Synthes 6. Which one of the a) It is used to ligate c) It is isolated from 7. ELISA is mainly to a) Detection of muta	gene therapy was done for the b) Cancer vas obtained by a technique k ransfer culture of somatic cells adenosine deaminase deficient therapy of genetically engineered lymnosine deaminase activators marrow cells producing ADA acids are arranged in the two deaminase activators and Chain B has 13 and Chain B has 30 amino acide chain B has 30 amino acide chain B has 20 amino acide chain B has 30 amin	c) Cystic fibrosis nown as b) Cloning without a d) Cloning by nucle ency may be cured perr aphocytes having ADA a into embryo at an earl o chains of Insulin? ds s s by temperature, they ar b) Synthesis, Anneal d)Denaturation, Synthesis and Donaturation, Synthesis and Donaturation active to b) It serves as a s d) It remains active b) Detection of path	the help of gametes ar transfer. manently by  cDNA  ly stage of development.  de in order of ling, Denaturation. thesis, Annealing rase used in PCR? selectable marker e at a high temperature.
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1. The first clinical ga) AIDS 2. Dolly, the sheep wa) Cloning by gene to c) Cloning by tissue 3. The genetic defect a) Enzyme replacements b) periodic infusion oc) administering aded d) introducing bone of the distribution of	gene therapy was done for the b) Cancer vas obtained by a technique k ransfer culture of somatic cells adenosine deaminase deficient therapy of genetically engineered lymnosine deaminase activators marrow cells producing ADA acids are arranged in the two lad Chain B has 13 and Chain B has 30 amino acid and chain B has 30 amino acid had chain B has 20 amino acid here distinct steps governed bealing, Synthesis his, Denaturation following statements is true reintroduced DNA in recipient a Virus used for tions having desired traits are those which have	c) Cystic fibrosis nown as b) Cloning without a d) Cloning by nucle ency may be cured perr aphocytes having ADA a into embryo at an earl o chains of Insulin? ds s s by temperature, they ar b) Synthesis, Anneal d)Denaturation, Synthesis and Donaturation, Synthesis and Donaturation active to b) It serves as a s d) It remains active b) Detection of path	the help of gametes ar transfer. manently by  cDNA  ly stage of development.  e in order of ling, Denaturation. thesis, Annealing trase used in PCR? selectable marker e at a high temperature.  logens maying desired traits

- c) Foreign RNA in some of their cells
- d) Foreign RNA in all their cells
- 9. Vaccines that use components of a pathogenic organism rather than the whole organism are called
- a) Subunit recombinant vaccines

b) attenuated recombinant vaccines

c) DNA vaccines

d) conventional vaccines.

#### 10. ORGANISMS AND POPULATION

- 1. All populations in a given physical area are defined as
- a) Biome
- b) Ecosystem
- c) Territory
- d) Biotic factors
- 2. Organisms which can survive a wide range of temperatuer are called
- a) Ectotherms b) Eurytherms
- c) Endotherms
- d) Stenotherms
- 3. The interaction in nature, where one gets benefit on the expense of other is...
- a) Predation
- b) Mutualism
- c) Amensalism
- d) Commensalism
- 4. Predation and parasitism are which type of interactions?
- a) (+,+)
- b) (+, O)

- c) (--, --)
- d) (+, --)

- 5. Competition between species leads to
- a) Extinction b) Mutation

- c) Amensalism
- d) Symbiosis

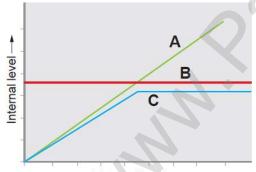
- 6. Which of the following is an r-species
- a) Human
- b) Insects

- c) Rhinoceros
- d) Whale
- 7. Match the following and choose the correct combination from the options given below.

Column I

Column II

- A. Mutalism
- 1. Lion and deer
- B. Commensalism
- 2. Round worm and man
- C. Parasitism
- 3. Birds compete with squirrels for nuts
- D.Competition
- 4.Sea anemone on hermid crab 5.Bernacles attached to whale
- E.Predation
- 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, B-3, C-1, D-5, E-4
- (d)A-5, B-4, C-2, D-3, E-1
- 8. The figure given below is a diagrammatic representation of response of organisms to abiotic factors. What do A, B and C represent respectively.



External	level -	-

Sl No	A	В	С
a	Conformer	Regulate	Partial regulator
b	Regulator	Partial regulator	Conformer
c	Partial regulator	Regulator	Conformer
d	Regulator	Conformer	Partial regulator

- 9. The relationship between sucker fish and shark is.........
- a) Competition
- b) Commensalism
- c) Predation
- d) Parasitism.

- 10. Which of the following is correct for r-selected species
- a) Large number of progeny with small size b) large number of progeny with large size
- c) small number of progeny with small size d) small number of progeny with large size
- 11. Animals that can move from fresh water to sea called as....
- a) Stenothermal
- b) Eurythermal
- c) Catadromous
- d) Anadromous

12. Some organisms are able to maintain homeostasis by physical means			
a) Conform	b) Regulate	c) Migrate	d) Suspend.
11. BIODIVERSITY AND ITS CONSERVATION			
1. Which of the following regio n has maximum biodiversity			
a.Taiga	B. Tropical forest	<u> </u>	forest d)Mangroves
_	odiversity within their natura	, -	, 2
	n B. Exsitu conservation		rvation D. In vitro
conservation			
3. Which one of the following is not coming under insitu conservation			
A. Sanctuaries	b) Natural parks	c) Zoological parl	
4. Which of the follow	wing is considered a hotspot	s of biodiversity in In	ndia
a) Western ghats b) Indo-gangetic plain c) Eastern Himalayas d) A and C			
5. The organization w	which published the red list o	f species is	*
a) WWF	b) IUCN	c) ZSI	d) UNEP
6. Who introduced th	e term biodiversity?		. (/)
a) Edward Wilson	b) Walter Rosen	c) Norman Myers	d) Alice Norman
7. Which of the following forests is known as the lungs of the planet earth?			
a. Tundra forest		b. Rain forest of r	north east India
c. Taiga forest		d. Amazon rain fo	prest
8. Which one of the following are at high risk extinction due to habitat destruction			
a) Mammals	b) Birds	c) Amphibians	d) Echinoderms
9. Assertion: The Env	vironmental conditions of the	e tropics are favoural	ole 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 ar	nd Reason are false.		
12. ENVIRONMENTAL ISSUES			
1. Right to Clean Water is a fundamental right, under the Indian Constitution			
a) Article 12	,	/	Article 41
	Stratospheric Ozone layer is		0 0 1
a) Sieverts units b) Dobson units c) Melson units d)Beaufort Scale 3. As per 2017 statistics, the highest per capita emitter of Carbon dioxide in the world is			
_			
a) USA	, ,	/	Saudi Arabia
4. The use of microorganism metabolism to remove pollutants such as oil spills in the water bodies is			
known as	\D: 1: :: \F		D: 1 .:
,	b) Bioremediation c) B		Bioreduction
5. Which among the following always decreases in a Food chain across tropic levels?			
a) Number b)Accumulated chemicals c) Energy d) Force 6. In the E-waste generated by the Mobile Phones, which among the following metal is most			
	erated by the Mobile Phones	s, which among the fo	ollowing metal is most
abundant?	1) 6'1	11 1' 1\	C 11
a) Copper	· · · · · · · · · · · · · · · · · · ·	,	Gold
<u> </u>	e an ideal disinfectant for wa		
a) U-V Rays		oiling d)	Ozonisation
8. SMOG is derived f		41 4 4 4 1 5 4 4	0.1.4
a) Smoke	, ,	oth A and B d)	Only A
9. Excess of fluoride in drinking water causes:			
a) Lung disease	b) Intestinal infection c) Fl	uorosis d)	None of the above