Class: 12

Register			
Number			

	WELL D	ONE MATRIC. HR. SE	C. SCHOOL, T. T.	. PURAM.
	BIO - ZOOLOGY			Marks: 80
		Book Back One Mark Que	stions (Chapter 1 –	6)
1.	In which type of partheno	genesis are only males pro-	duced?	
	a) Arrhenotoky	b) Thelytoky	c) Amphitoky	d) Both a and b
2.	The mode of sexual reproduction	duction in bacteria is by		
	a) Formation of gametes	b) Endospore formation	c) Conjugation	d) Zoospore formation
3.	In which mode of reprodu	ction variations are seen		
	a) Asexual	b) Parthenogenesis	c) Sexual	d) Both a and b
4.	Assertion: In bee society, a	ll the members are diploid	except drones.	
	Reason : Drones are prod	uced by parthenogenesis.		
	a) If both A and R are true	and R is correct explanati	on for A	
	b) If both A and R are true	but R is not the correct ex	xplanation for A	
	c) If A is true but R is fals	e d) both	h A and R are false.	
5.		oduced by asexual reproduction involves only mitos		ally identical to the parent.
	a) If both A and R are true	and R is correct explanati	on for A	
	b) If both A and R are true	but R is not the correct ex	planation for A	
	c) If A is true but R is fals	e d) both	h A and R are false.	
6.	The mature sperms are sto	ored in the		
	a) Seminiferous tubules	b) Vas deferens	c) Epididymis	d) Seminal vesicle
7.	The male sex hormone tes	tosterone is secreted from		
	a) Sertoli cells	b) Leydig cell	c) Epididymis	d) Prostate gland
8.	The glandular accessory o	rgan which produces the la	argest proportion of	semen is
	a) Seminal vesicle	b) Bulbourethral glar	nd c)Prostate gland	d) Mucous gland
9.	The male homologous of	the female clitoris is		
	a) Scrotum	b) Penis	c) Urethra	d) Testis
10.	The site of embryo implar	ntation is the		
	a) Uterus	b) Peritoneal cavity	y c) Vagina	d) Fallopian tube
11.	The foetal membrane that	forms the basis of the umb	oilical cord is	-
	a) Allantois	b) Amnion	c) Chorion	d) Yolk sac
12.	The most important hormo	•	aining lactation after	r birth is
	a) Oestrogen	b) FSH	c) Prolactin	d) Oxytocin

13.	Mammalian egg is				
	a) Mesolecithal and non cleidoic c) Alecithal and non cleidoic		b) Microlecithal and non cleidoic		
			d) Alecithal and cleidoic		
14.	The process which the sperm undergoes before per		etrating the ovum is		
	a) Spermiation	b) Cortical reaction	c) Spermiogenesis	d) Capacitation	
15.	The milk secreted by the ma	mmary gland soon after	r child birth is called		
	a) Mucous	b) Colostrum	c) Lactose	d) Sucrose	
16.	Colostrum is rich in				
	a) Ig E	b) Ig A	c) Ig D	d) Ig M	
17.	7. The Androgen Binding Protein (ABP) is produced by				
	a) Leydig cell	b) Hypothalamus	c) Sertoli cells	d) Pituitary gland	
18.	Find the wrongly matched p	air			
	a) Bleeding phase -	Fall in oestrogen and	progesterone		
	b) Follicular phase -	Rise in oestrogen			
	c) Luteal phase -	Rise in oestrogen			
	d) Ovulatory phase -	LH surge			
19.	A- In human male, testes are	extra abdominal and li	e in scrotal sacs.		
	R- Scrotum acts as thermore	gulator and keeps temp	erature lower by 2°C for no	ormal sperm production	
	a) A and R are true and R is	correct explanation for	A		
b) A and R are true but R is not the correct explanation for A					
	c) A is true but R is false				
	d) Both A and R are false.				
20.	$A-Ovulation \ is \ the \ release$	of ovum from the Graa	fian follicle.		
	R – It occurs during the follicular phase of the menstrual cycle.				
	a) If both A and R are true and R is correct explanation for A				
	b) If both A and R are true b	ut R is not the correct e	xplanation for A		
	c) If A is true but R is false	d) bo	th A and R are false.		
21.	A – Head of the sperm consi	sts of acrosome and mi	tochondria.		
	R – Acrosome contains spiral	rows of mitochondria.			
	a) A and R are true and R is	correct explanation for	A		
	b) A and R are true but R is a	not the correct explanat	ion for A		
	c) A is true but R is false	d) both	A and R are false.		
22	. Which of the following is c	orrect regarding HIV, I	Hepatitis B, Gonorrhoea and	d Trichomoniasis.	
	a) Gonorrhoea is a STD wh	nereas others are not			
	b) Trichomoniasis is a vira	disease whereas others	s are bacterial		
	c) HIV is a pathogen whereas others are diseases.				
	d) Hepatitis B is eradicated of	completely whereas oth	ers are not		

23. Which one of the following groups includes sexually tra	nsmitted diseases caused by bacteria only?			
a) Syphilis, gonorrhea and candidiasisc) Syphilis, gonorrhea and trichomoniasis	b) Syphilis, chlamydiasis and gonorrhoea d) Syphilis, trichomoniasis and pediculosis			
24. Identify the correct statement from the following				
a) Chlamydiasis is a viral disease.				
a) Gonorrhoea is caused by a spirochaete bacterium, T	reponema palladium			
b) The incubation period for syphilis is 2 to 14 days in	males and 7 to 21 days in females			
c) Both syphilis and gonorrhea are easily cured with a	ntibiotics			
25. A contraceptive pill prevents ovulation by				
a) Blocking fallopian tube b) Inhib	oiting release of FSH and LH			
c) Stimulating release of FSH and LH d) Causi	ng immediate degeneration of released ovum			
26. The approach which does not give the defined action of o	contraceptive is			
a) Hormonal contraceptive - Prevents entry of sp	perms, prevent ovulation and fertilization			
b) Vasectomy - Prevents spermatogene	sis			
c) Barrier method - Prevents fertilization				
d) Intra uterine device - Increases phagocytos	is of sperms, suppresses sperm			
motility and fertilizingc	apacity of sperms			
27. Statement 1: Diaphragms, cervical caps and vaults are m	ade of rubber and are inserted into the			
female reproductive tract to cover the cervix before coitus.				
Statement 2: They are chemical barriers of conception at	nd 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 no	ot the correct explanation of statement 1.			
c) Statement 1 is correct but statement 2 is incorrect.				
d) Both statements 1 and 2 are incorrect.				
28. Match column I with column II and select the correct opt	tion from the codes given below.			
a) Copper releasing IUD - (i) LNG-20	(a) A-(iv), B-(ii), C-(i), D-(iii)			
b) Hormone releasing - (ii) Lippes loop	IUD (b) A-(iv), B-(i), C-(iii), D-(ii)			
c) Non medicated IUD - (iii) Saheli	(c) A-(i), B-(iv), C-(ii), D-(iii)			
d) Mini pills - (iv) Multiload-3	75 (d) A-(iv), B-(i), C-(ii), D-(iii)			
29. 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 unsuitab	le for implantation.			
30. Haemophilia is more common in males because it is a				
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				

31. ABO blood	group in man is controlled	by	
a) Multiple a	alleles b) Lethal genes	c) Sex linked genes	d) Y-linked genes
32. Three childr	en of a family have blood g	groups A, AB and B. Wha	at could be the genotypes
of theirparen	ts?		
a) $I^A I^B$ and I	$I^{O} I^{O}$ b) $I^{A} I^{O}$ and $I^{B} I^{O}$	c) $I^B I^B$ and $I^A I^A$	d) $I^A I^A$ and $I^O I^O$
33. Which of the	e following is not correct?		
a) Three or r	nore alleles of a trait in the	population are called mu	ltiple alleles.
b) A normal	gene undergoes mutations	to form many alleles.	
c) Multiple a	alleles map at different loci	of a chromosome.	
d) A diploid	organism has only two alle	eles out of many in the po	pulation.
34. Which of the	e following phenotypes in	the progeny are possible f	rom the parental combination
AxB?			
a) A and B o	only b) A, B and Al	B only c) AB only	d) A, B, AB and C
35. Which of the	e following phenotypes is r	not possible in the progen	y of the parental
genotypic co	ombination I ^A I ^O X I ^A I ^B ?		
a) AB	b) O	c) A	d) B
36. Which of the	e following is true about Rl	n factor in the offspring of	f a parental combination
DdxDd (botl	h Rh positive)?		
a) All will be	e Rh positive	b) Half will be	Rh positive
c) About ¾	will be Rh negative	d) About one fo	ourth will be Rh negative
37. What can be	the blood group of offspri	ng when both parents hav	e AB blood group?
a) AB only	b) A, B and AB	c) A, B, AB a	and O d) A and B only
38. If the childs	blood group is 'O' and fatl	ners blood group is 'A' ar	nd mother's blood group is 'B'
thegenotype	of the parents will be		
a) $I^A I^A$ and I^A	I ^B I ^O b) I ^A I ^O and I ^B I ^O	c) I ^A I ^O and I ^O I ^O	d) $I^{O}I^{O}$ and $I^{B}I^{B}$
39. XO type of s	sex determination and XY	type of sex determination	are examples of
a) Male hete	rogamety b) Female hete	rogamety c) Male hom	ogamety d) Both (b) and (c)
40. In an accide	nt there is great loss of bloo	od 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 pos	sitive c) B and Rh negat	ive d) AB and Rh positive
41. Father of a ch	aild is colourblind and moth	ner is carrier for colourbli	ndness, the probability of the
child being co	lourblind is		
a) 25%	b) 50%	c) 1009	d) 75%
42. A marriage l	between a colourblind man	and a normal woman pro	duces
a) All carrier	r daughters and normal son	s b) 50% carrier daughter	es and 50% normal daughters
c) 50% colou	urblind sons and 50% norm	al sons d) All carri	er offsprings
43. Down's synd	drome is a genetic disorder	which is caused by the p	resence of an extra chromosome
number.			
a) 20	b) 21	c) 4	d) 23

44. Klinefelters' syndr	rome is characterized by a k	aryotype of		
a) XYY	b) XO	c) XXX	d) XXY	
45. Females with Turn	ners' syndrome have			
a) Small uterus	b) Rudimentary ovaries	c) Underdeveloped breasts	d) All of these	
46. Pataus' syndrome	is also referred to as			
a) 13- Trisomy	b) 18- Trisomy	c) 21 – Trisomy d	None of these	
47. "Universal Donor"	'and "Universal Recipients"	" blood group areand	_respectively	
a) AB, O	b) O, AB	c) A, B	d) B, A	
48. ZW-ZZ system of	sex determination occurs in			
a) Fishes	b) Reptiles	c) Birds	d) All of these	
49. Co-dominant bloo	d group is			
a) A	b) AB	c) B	d) O	
50. Which of the follo	wing is incorrect regarding	ZW-ZZ type of sex determina	tion?	
a) It occurs in bird	ds and some reptiles			
b) Females are ho	mogametic and males are he	eterogametic		
c) Males produce	one types of gamete	d) It occurs in gyps	y moth	
51. Hershey and Chase	e experiment with bacteriop	hage showed that		
a) Protein gets into	the bacterial cells	b) DNA is the genetic	material	
c) DNA contains i	radioactive Sulphur	d) Viruses undergo tra	nsformation	
52. DNA and RNA are	e similar with respect to	RO1		
a) Thymine as a ni	trogen base b) A sing	gle-stranded helix shape		
c) Nucleotide con	taining sugars, nitrogen base	es and phosphates		
d) The same seque	ence of nucleotides for the a	mino acid phenyl alanine		
53. A mRNA molecul	e is produced by			
a) Replication	b) Transcription	c) Duplication d)	Γranslation	
54. The total number of	of nitrogenous bases in hum	an genome is estimated to be	about	
a) 3.5 million b) 35000 c) 35 million d) 3.1 billion				
55. E. coli cell grown on ¹⁵ N medium are transferred to ¹⁴ N medium and allowed to grow for two				
generations. DNA extracted from these cells is ultra-centrifuged in a cesium chloride density				
gradient. What density distribution of DNA would you expect in this experiment?				
a) One high and o	ne low density band.	b) One intermediate de	ensity band.	
c) One high and one intermediate density band d) One low and one intermediate density band.				
56. What is the basis for the difference in the synthesis of the leading and lagging strand of DNA				
molecules?				
a) Origin of replication occurs only at the 5' end of the molecules.				
b) DNA ligase works only in the $3' \rightarrow 5'$ direction.				
c) DNA polymerase can join new nucleotides only to the 3' end of the growing stand.				
d) Helicases and single-strand binding proteins that work at the 5' end.				

57. Which of the following is the correct sequence	e of event with reference to the central dogma?
a) Transcription, Translation, Replication	b) Transcription, Replication, Translation
c) Duplication, Translation, Transcription	d) Replication, Transcription, Translation
58. Which of the following statements about DNA	A replication is not correct?
a) Unwinding of DNA molecule occurs as hy	drogen bonds break.
b) Replication occurs as each base is paired w	vith another exactly like it.
c) Process is known as semi conservative rep	lication because one old strand is conserved in the
new molecule.	
d) Complementary base pairs are held together	er with hydrogen bonds.
59. Which of the following statements is not true	about DNA replication in eukaryotes?
a) Replication begins at a single origin of repl	lication.
b) Replication is bidirectional from the origin	s.
c) Replication occurs at about 1 million base	pairs per minute.
d) There are numerous different bacterial chro	omosomes, with replication occurring in each at the
same time.	
60. The first codon to be deciphered was	which codes for
a) AAA, proline b) GGG, alanine	c) UUU, Phenylalanine d) TTT, arginine
61. Meselson and Stahl's experiment proved	
a) Transduction b) Transformation	c) DNA is the genetic material
d) Semi-conservative nature of DNA replicati	ion
62. Ribosomes are composed of two subunits; the	e smaller subunit of a ribosome has a binding site for
and the larger subunit has two binding	sites for two
a) mRNA / tRNA b) tRNA / mRN	A c) rRNA / tRNA d) rRNA / mRAN
63. An operon is a:	
a) Protein that suppresses gene expression	b) Protein that accelerates gene expression
c) Cluster of structural genes with related fun	ction d) Gene that switched other genes on or off
64. When lactose is present in the culture medium	1:
a) Transcription of <i>lac y, lac z, lac a</i> genes	occurs. b) Repressor is unable to bind to the operator.
c) Repressor is able to bind to the operator.	d) Both (a) and (b) are correct.
65. The first life on earth originated	
	d) on mountain
66. Who published the book "Origin of species by	Natural Selection" in 1859?
a) Charles Darwin b) Lamarck c) W	d) Hugo de Vries
67. Which of the following was the contribution of	of Hugo de Vries?
a) Theory of mutation	b) Theory of natural Selection
c) Theory of inheritance of acquired characters	
68. The wings of birds and butterflies is an examp	
a) Adaptive radiation b) Convergent evolution	on d) Divergent evolution d) Variation

69. The phenomenon of "Industrial Melanism" demonstrates					
a) Natural selecti	b) Induced mutation				
c) Reproductive	isolation d) Ge	ographical isolation			
70. Darwin's finches	are an excellent example	of			
a) connecting lin	ks b) seasonal m	igration c) adaptive radi	ation d) parasitism		
71. Who proposed th	e Germplasm theory?				
a) Darwin	b) August Weismann	c) Lamarck	d) Alfred Wallace		
72. The age of fossil	s can be determined by				
a) Electron micro	oscope b) Weighing the	e fossils c) Carbon dating	d) Analysis of bones		
73. Fossils are gener	ally found in		A 104		
a) Igneous rocks	b) Metamorphic rocks	c) Volcanic rocks	d) Sedimentary rocks		
74. Evolutionary hist	ory of an organism is calle	ed			
a) Ancestry	b) ontogeny	c) phylogeny	d) paleontology		
75. The golden age of	f reptiles was				
a) Mesozoic era	b) Cenozoic era	c) Paleozoic era	d) Proterozoic era		
76. Which period wa	s called "Age of fishes"?				
a) Permian	b) Triassic	c) Devonian d) Or	dovician		
77. Modern man bel	ongs to which period?				
a) Quaternary	b) Cretaceous	c) Silurian d) Ca	mbrian		
78. The Neanderthal	78. The Neanderthal man had the brain capacity of				
a) 650 -800 cc	b) 1200 cc	c) 900 cc d) 1400 cc	2		
79. According to Darwin, the organic evolution is due to					
a) Intraspecific competition b) Interspecific competition					
c) Competition within closely related species.					
d) Reduced feed	ng efficiency in one speci	ies due to the presence of ir	nterfering species.		
80. A population wi	ll not exist in Hardly-Weir	nberg equilibrium if			
a) Individuals n	nate selectively	b) There are no mutation	ns		
c) There is no m	igration	d) The population is large	2		
	110				

ALL THE BEST

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