19235

1.

2.

3.

4.

A 120 MINUTES

Para	phyletic group includes on	ly						
A)	Some descendent species of the common ancestor							
B)	All descendent species of the common ancestor							
C)	All descendent species of more than one ancestor							
D)	Some descendent species of more than one character							
Dete	rmination of ancestral rela	tionships of	forganisms and the group's evolutionary					
histo	ory through time is	1						
A)	Identification	B)	Taxonomy					
C)	Phylogeny	D)	Systematics					
Mate	ch the following							
	A		В					
1.	Willi Hennig	a.	Systema naturae					
2.	Carolus Linnaeus	b.	Systematics					
3.	Simpson	с.	Father of biological classification					
4.	Aristotle	d.	Cladism					
A)	1-d,2-b,3-c,4-a	B)	1-b,2-a, 3-d,4-c					
C)	1-a,2-d,3-c,4-b	D)	1-d,2-a,3-b,4-c					
Nun	nerical taxonomy is otherw	vise called						
A)	Phenetics	B)	Phenogram					

- A)PheneticsB)PhenogramC)PhylogeneticsD)Cladistics
- 5. Out of the following statements about glass sponges, which one is false?
 - A) Especially abundant in Antarctic region
 - B) Body wall is a syncytium
 - C) They are upright and completely sessile
 - D) A cellular pinacoderm and choanoderm are present
- 6. Consider the following statements:

Assertion: Closely related organisms should have proteins with very similar amino acid sequences /genes with the same or similar base sequences

Reason: 1. Members of the same species are identical at the molecular level

Reason: 2. Distantly related organisms are more and more different at the molecular level

- A) Assertion is false and reason 1 and 2 supports assertion
- B) Assertion is true and reason 1 and 2 supports assertion
- C) Assertion is true and reason 1 only supports assertion
- D) Assertion is false and reason 1 and 2 do not support assertion
- 7. The organ which creates water current towards the mouth in Amphioxus?
 - A) Velum B) Wheel organ C) Snout D) Vestibule

- 8. Retrogressive metamorphosis is seen in
 - A) Cephalochordates B) Rotifers
 - C) Urochordates D) Cnidarians
- 9. Consider the following statements: -
 - Assertion: The phenomenon of retention of larval characters of axolotl is called neoteny and they become sexually mature to start reproduction
 - Reason 1 : When water and food are abundant, they do not metamorphose into adults
 - Reason 2: If water and food are scarce, they lose gills and tail, develop lungs and metamorphose into adults
 - Reason 3 : If water and food abundant, they metamorphose into adults
 - A) Assertion is true and reason 1 supports assertion
 - B) Assertion is true and reason 1 and 2 support assertion
 - C) Assertion is false and reason 1 does not support assertion
 - D) Assertion is false and reason 1 and 2 do no support assertion
- 10. Match the following

	Α		В
a.	Draco	1.	Nocturnal and insectivorous
b.	Gecko	2.	Patagium
c.	Varanus	3.	Fossorial lizard
d.	Uromastix	4.	Largest living lizard
A)	a-2, b-1, c-4, d-3		B) a-2, b-1, c-3, d-4
C)	a-1, b-2, c-4, d-3		D) a-3, b-2, c-1, d-4

11. Organ of Corti is

- A) Made up of cells specially modified for recovering sound waves
- B) Involved in keeping equilibrium
- C) Is the point of origin of ureter from kidney
- D) Is a concave depression on the inner side of kidney
- 12. Out of the following which is not fishing gear?
 - A) Harpoon B) Trap
 - C) Dug-out canoe D) Purse-sein

13. Match the following

Α

В

- 1. Green mussel Perna indica a. 2. Brown mussel Raft culture b. Chilka lake 3 Pinctada c. 4. Etroplus surratensis Perna viridis d. 1-d,2-c,3-a,4-b A) 1-d,2-b,3-a,4-c B) 1-d,2-a,3-b,4-c 1-d,2-c,3-b,4-a C) D)
- 14. Spodoptera mauritia is a pest of
 - A) Paddy B) Maize
- C) Sugar cane D) Rubber

15. Dinosaurs became completely extinct in	Ĺ
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- A) Oligocene epoch B) Eocene epoch
- C) Palaeocene epoch D) Meocene epoch
- 16. A perfect nutrient cycle is a biogeochemical cycle in which
 - A) The Cycling is imperfect and the nutrients removed from the cycle are not fully compensated by their release
 - B) The nutrients are replaced as fast as they are removed from the reservoir pools
 - C) The nutrients are released largely by deep sediments such as weathering rocks
 - D) The atmosphere serves as the reservoir pool
- 17. Out of the following which is not a process of ecological succession?
 - A) Nudation B) Ecesis C) Dominance D) Competition
- 18. Match the following

	A		В
1.	Amensalism	a.	Population 1 benefits, population 2 unaffected
2	Competition	b.	Population 1 unaffected, population 2 harmed
3.	Commensalism	c.	Direct inhibition of each species by the other
4.	Neutralism	d.	Neither population affects the other
A)	1-b,2-a,3-c,4-d		B) 1-b,2-d,3-c,4-a
C)	1-d,2-b, 3-c,4-a		D) 1-b,2-c,3-a,4-d

- 19. Symbiotic origin of mitochondria and chloroplasts has been confirmed by
 - A) Molecular taxonomy B) Numerical taxonomy
 - C) Taxonomic hierarchy D) Hierarchial taxa
- 20. Which of the following statements are true?
 - 1. Metamerism affects the endodermal and mesodermal regions of the body
 - 2. Homonomous segmentation is only hypothetical
 - 3. Many animals exhibit heteronomous type of segmentation in which the segments are variously modified for doing different functions
 - 4. Pseudo-metamerism is exhibited by Nereis
 - A) 1 and 4 only B) 3 and 4 only
 - C) 1 and 2 only D) 2 and 3 only
- 21. Niche of an organism refers to the
 - A) Functional role it plays in the ecosystem
 - B) Environment, where an organism lives
 - C) Specific regions in a habitat where individual organisms live
 - D) Co-existing species of animals
- 22. How are transcription activators classified?
 - A) According to the type of RNA binding and domain
 - B) According to the type of DNA binding and domain
 - C) According to the type of receptor domain
 - D) According to the type of enzyme domain

- 23. Regulated stage of gene expression is
 - A) DNA-RNA transcription B) RNA transport
 - C) Translation D) mRNA degradation

24. A few statements with regard to Ozone depletion is given below. Find out which is **not** true:

- A) Increased terrestrial reflection of infrared heat
- B) Influx of high level of UV radiation
- C) Increased incidence of squamous cell carcinoma
- D) Decreases greenhouse effect
- 25. Itai-Itai is a disease caused by a metal pollution in Japan. Which is the metal?
 - A) Lead B) Cadmium C) Zinc D) Arsenic
- 26. Which is not a type of ionizing radiation emitted by radioactive substances?
 - A) Alpha B) Delta C) Beta D) Gamma
- 27. Out of the following statements with respect to ionizing radiation, which is false?
 - A) Very high energy radiations
 - B) Able to remove electrons from atoms
 - C) Is believed to be the one of the chief causes of injury to protoplasm
 - D) UV light is an example
- 28. With respect to Red Data Book, which statement is **not** true?
 - A) Red pages contain the list of the most endangered species, which are on the verge of extinction
 - B) Pink pages include the critically endangered species
 - C) Green pages include those species that were formerly endangered, but now recovered and no longer threatened.
 - D) Yellow pages contain species which have the possibility to become extinct
- 29. Which date is observed as 'World Environment Day'? A) $h_{\text{trans}} \int_{0}^{\text{th}} D$ $h_{\text{trans}} \int_{0}^{\text{th}} D$
 - A) June 5^{th} B) July 5^{th} C) June 6^{th} D) June 4^{th}
- 30. Match the following

	Α			В
1.	Sunderbans biosphere reserv	e	a.	Arunachal pradesh
2.	Nokrek		b.	Uttar pradesh
3.	Namdapha		c.	Meghalaya
4.	Nandadevi		d.	West Bengal
A)	1-d,2-b,3-c,4-a	B)	1-d,2-0	c,3-a,4-b
C)	1-d,2-a,3-b,4-c	D)	1-d,2-a	a,3-c,4-b

- 31. A few statements are given below. Find out which ones are true?
 - 1. The cerebral cortex is not very essential for learning and memory
 - 2. Temporal lobe of primates plays a significant role in the learning of touch discrimination
 - 3. Learning occurs at many parts of the brain at once and no one part is absolutely essential
 - A) 1 and 2 B) 1, 2 and 3 C) 2 and 3 D) 1 and 3

Motoh the foll 32.

33.

34.

35.

36.

37.

38.

Matc	the following				
	Α	В			
1.	Palolo worms	a. Annual rhythm			
2.	24 hour solar cycle	b. Free runners			
3.	Nesting of birds	c. Circadian rhythm			
4.	Deviation from the regular patte	n d. Lunar rhythm			
A)	1-d,2-c,3-b,4-a B)	1-d,2-c,3-a,4-b			
C)	1-b,2-c,3-d,4-a D)	1-c,2-d,3-a,4-b			
The c	chemoreceptors of the male silkwor	n moth are located in its			
A)	Nostrils B) Eyes	C) Antennae D) Skin			
In wl	hich form is the iron in the human h	emoglobin found?			
A)	Monovalent state B)	Divalent state			
C)	Trivalent state D)	Ferric state			
What	t is diastolic pressure?				
A)	The blood pressure existing in the	e large arteries			
B)		ing ventricular diastole before the begin	ning		
C)	Arterial blood pressure during v	entricular contraction			
D)	The average between the mean a				
Whic	ch one of the following steps related	to platelet is false?			
A)	U 1	ation of large cells called megakaryocyt	es		
B)		the stem cells in the bone marrow			
C)	Their production is regulated by a hormone called thrombopoietin				
D)	Thromboplastin also regulates th	e production of thrombocytes			
What	t is hypernatremia?				
A)	An increase in plasma Vitamin I	level above normal			
B)	An increase in natriuretic hormo				
C)	An increased erythropoietin leve	in plasma			
D)	An increase in plasma sodium le				
Whic	ch among the following statements	bout loop of Henle is false?			

- Loop of Henle begins in the medulla of the Kidney A)
- B) Its primary role is to concentrate the salt in the interstitium, the tissue surrounding the loop
- C) It begins in the cortex, receives filtrate from the proximal convoluted tubule
- Finally, it returns to the cortex and empty into the distal convoluted tubule D)
- Which among the following is **not** true? 39.
 - Fat synthesis is accentuated by an uptake of glucose A)
 - Insulin influences the active transport of glucose across the renal tubules B)
 - Insulin does not influence the active transport of glucose across gastrointestinal C) epithelium
 - D) Glycogen synthesis is also accentuated by an uptake of glucose

40.	Find o A) B) C) D)	ut the correct e Efferent ductu Epididymis— Epididymis— Ductus defere	iles—> >Ductu >Dduc	Epididy 1s defere tus defe	rmis—> ens—Ej rens—>	Ductus aculato Efferer	ry duct– nt ductul	–>Effe es—>I	erent du Ejaculat	ctules ory duct
41.	Wheth length	her relaxed or co	ontracte	ed, whic	h part i	n a myc	ofibril alv	ways re	emain tl	he same
	A)	I band	B)	H-Zon	ne	C)	A band	l	D)	Z-Zone
42.	Match	the following							В	
	1. 2. 3.	A Activation of Mediator in al Stimulation of	llergic 1			olement		a. b.	ы Ig A Ig E	
	4	system passiv		2		1 41		C.	Ig M	
	4.	Protection fro	m inna	led and	ingestee	i pathog	gen	d.	Ig G	
	A)	1-c,2-d,3-b,4-			B)	-	a,3-b,4-c			
	C)	1-b,2-c,3-d,4-	a		D)	1-c,2-	b,3-d,4-a	a		
43.	Match	the following A				В				
	2. Cyt 3. Plas	per T cells otoxic T cells sma cells er T cells	 b. A c. C d. C 	ells that	T or B l are act with ar	ymphoo ive in th	et cells cytes to l ne produ causing l	ction o	of antibo	odies
	A) C)	1-b,2-c,3-a,4- 1-a,2-c,3-b,4-			B) D)	,	a,3-c,4-c d,3-b,4-c			
44.	Match	the following				В				
	1.	A Radial cleavag	ge		a.		ids, mol	luscans	s and fla	atworms
	2.	Spiral cleavag	•		b.		nals and	nemat	odes	
	3. 4.	Bilateral cleav Rotational cle	-		c. d	Tunica Echine	ates oderms a	and flat	tworms	
	A)	1-d,2-a,3-c,4-	b		B)	1-d.2-	a,3-b,4-c	2		
	C)	1-d,2-c,3-b,4-			D)	-	d,3-b,4-c			
45.	Cotyle A)	edonary placent Pig	a is see B)	n in Sheep		C)	Bear		D)	Rodents
46.	For In	Vitro Fertilizat one injected to s Human choric Estrogen Progesterone	tion, du timulat	ring the severa	ovulate al follic	ory pha		menst		ele, the

C) ProgesteroneD) Estrogen and progesterone

- 47. Chi-square test is applied when theoretical frequency is
 - Lower than 5 B) At least 10 or above 10 A)
 - Which is not Below 10 No lower limit C) D)
- 48. Starch is a mixture of
 - Amylase and amylopectin B) Amylose and amylopectin A)
 - C) Cellulose and amylose D)
- 49. A few statements are given below about a particular Vitamin. Find out the Vitamin
 - The outer layers of the seeds of plants are especially rich in this Vitamin 1.
 - Whole-wheat bread is an excellent source, where as ordinary white bread is a 2 poor source

Sucrose and trehalose

- 3. Excessive cooking leaches this water-soluble vitamin from many food materials
- A) Vi. A B) Vi. B12 C) Vi. B1 D) Vi. B2
- Which of the following is **not** a cause of Ketosis? 50.
 - Starvation A)
 - B) Abrupt replacement of a normal diet by a low carbohydrate and high fat diet
 - Diabetes mellitus C)
 - D) Low level of exercise during dieting
- 51. The first step in ornithine cycle is the synthesis of
 - Carbamyl phosphate B) Arginine A)
 - C) Citrulline D) Arginosuccinic acid
- 52. Which amino acid after transamination directly enters the Kreb's cycle at oxaloacetic stage?
 - A) Glutaric acid B) Alanine C) Serine D) Aspartic acid
- 53. A few statements about the uses of NMR Spectroscopy is given below. Find the wrong one.
 - A) Gives a complete three- dimensional structure of small proteins in solutions
 - Reveals dynamics E g., Tyr and Phe ring flips (motion in solution) B)
 - Can't follow ligand binding C)
 - Depicts conformational changes during folding D)
- 54. Match the following

Α 1. Thin layer chromatography

- В
- a. Columns are made up of synthetic resins
- 2. Ion exchange chromatography b. Isolation of specific immunoglobulin from antisera c. Separation of different fatty acids
- 3. Affinity chromatography
- 4. Gas chromatography
- d Alumina and silica gel are the commonly used adsorbents
- A) 1-d,2-a,3-c,4-b B) 1-a,2-d,3-b,4-c C)
 - 1-a,2-d,3-c,4-b D)

1-d,2-a,3-b,4-c

- 55. Chromosomal crossing over occurs during the
 - A)
 - Prophase of 1st meiotic division Prophase of 2nd meiotic division B)
 - Metaphase of 1st meiotic division C)
 - Anaphase of 1st meiotic division D)

Psuedoautosomal segment of both X and Y chromosomes carry 56.

- Completely sex-linked genes A)
- B) Incompletely sex-linked genes
- C) X-linked genes
- Holandric genes D)

57. Which one is not an autosomal disorder?

- Sickle-cell anemia Taysach disease A) B)
- C) Thalassemia D) Albinism
- 58. The characteristic cell wall material peptidoglycan is present in
 - Eukaryotes Archaebacteria A) B)
 - C) Certain viruses D) Eubacteria
- 59. Find out the factor which does not influence the enzyme activity?
 - Substrate concentration Humidity B) A)
 - C) Temperature D) рH
- 60. What is the key role of the voltage-gated K^+ ion channel?
 - Muscle contraction A)
 - Nerve conduction B)
 - C) Movement of water molecules
 - D) All of the above

61. Match the following

A

B

- 1. Leptotene a. Tetrad
- 2. Zygotene b. Chiasmata
- 3. Pachytene c. Bouquet formation
- 4. Diplotene d. Synaptonemal complex
- A) 1-c,2-d,3-b,4-a B) 1-c,2-d,3-a,4-b 1-c,2-a,3-b,4-d C) D) 1-c,2-a,3-d,4-b

62. Which among the following is not a genetic disorder?

- Cystic fibrosis Huntington's disease A) B) C)
 - Emphysema D) Glioblastoma
- 63. The correct sequences involved in the flow of genetic information A) Replication- \rightarrow Translation- \rightarrow Transcription
 - B) Translation---- \rightarrow Transcription----- \rightarrow Replication
 - C) Replication---- \rightarrow Transcription----- \rightarrow Translation
 - D) Transcription \rightarrow Translation \rightarrow Replication

- 64. A few statements are given below with respect to transposons. Find out the one which is false.
 - A) They were first discovered in maize genome
 - B) Sometimes they cause mutation by messing up the coding sequences in the gene they are sitting in.
 - C) It can boost up the expression of the invaded genes or turn off the expression of a neighboring gene, once it has inserted itself into a gene
 - D) A transposable element found in human genome is the Alu transposon

65.	Which one of the following statements is true?	
-----	--	--

- A) Carcinomas arise from connective tissues
- B) Sarcomas arise from epithelial cells of ectoderm and endoderm
- C) Cancer cells follow the programmed cell death
- D) Cervical, breast and skin cancers are carcinomas and carcinomas include about 85% of human Cancers.

D

- 66. Satellite DNAs consist of sequences with length
 - A) 5- 500 base pair B) 5-200 base pair
 - C) 5-300 base pair D) 5-100 base pair
- 67. Match the following

A	D
1. A cross made with a recessive parental type	a. Co-dominance

- 1. A cross made with a recessive parental typea. Co-dominance2. A cross made with any of the recessive orb. Test cross
- parental type
- 3. If the dominant factor cannot completely suppress the c. Back cross recessive, but the expression becomes intermediate between the two
- 4. If both the dominant and recessive characters express d. Incomplete dominance themselves in the offspring
- A) 1-b,2-c,3-d,4-a B) 1-b,2-d,3-c,4-a C) 1-b,2-c,3-a,4-d D) 1-b,2-a,3-c,4-d
- 68. The terminator codons on the mRNA during protein synthesis
 - A) UCC UGA CGA B) CCA CCG GCC AGA
 - C) AAG CCA GAC D) UAA UAG UGA

69. The enzyme which converts the pyruvate to oxaloacetate in gluconeogenesis

- A) Glucose6-phosphataseB) Fructose 1,6 diphosphataseC) Pyruvate carboxylaseD) Enolase
- 70. LH and FSH are collectively called:A) Oxytocin B) Somatotrophins
 - C) Luteotrophic D) Gonadotrophins
- 71. Gizzard (proventriculus) in cockroach lies between
 - A) oesophagus and stomach B) crop and mesenteron
 - C) mesenteron and ileum D) oesophagus and crop

- 72. Which zooid is generally motile A) Polyps B) Medusa C) Both D) None of them
- 73. Which one of the following pairs is not correctly matched?
 - A) Cursorial adaptations Limb bones elongated
 - B) Fossorial adaptations Develops shoulder girdle
 - C) Arboreal adaptations Webbed feet
 - D) Volant adaptations Fusion of certain bones.
- 74. The movement of masses of cells toward each other and their fusion into one cell mass is called
 - A) Concrescence. B) Convergence
 - C) Involution D) Ingression
- 75. Ecological equivalent are the taxonomically different organisms which occupy
 - A) same or similar ecological niches performing different functions in the same geographical region
 - B) different ecological niches performing similar function in the same geographical region
 - C) same or similar ecological niches performing different functions in different geographical regions
 - D) same or similar ecological niches performing similar functions indifferent geographical regions
- 76. The vitamin which is essential for blood clotting is
 - A) Vitamin-K B) Vitamin-B C) Vitamin-C D) Vitamin-A
- 77. When relatively palpable and unprotected species of animal imitates the relatively unpalpable or well protected species, it is called
 - A) Mullerian mimicry B) Batesian mimicry
 - C) Alluring mimicry D) Warming mimicry
- 78. Match the type of protozoans given in column-I with their examples given in column-II and choose the correct option.

ColumnI	Column II	
(Type of Protozoans)	(Examples)	
a) Amoeboid protozoans	1. Paramecium	
b) Ciliated protozoans	2. Plasmodium	
c) Flagellated protozoans	3. Amoeba	
d) Sporozoans	4. Trypanosoma	

A)	a- 1, b- 3, c- 4, d- 2	B)	a- 3, b- 1, c-2, d- 4
C)	a- 3, b-1, c- 4, d- 2	D)	a- 3, b- 4, c- 1, d- 2

- 79. Chemosynthetic autotrophic bacteria are named so because
 - A) They oxidize various inorganic substances such as nitrates, nitrites and ammonia and use the released energy for their ATP production.
 - B) They oxidize various organic substances and use the released energy for their ATP production.
 - C) Both A and B
 - D) None of these

80. Hydra is

- A) Fresh water, diploblastic & radially symmetrical
- B) Marine, diploblastic & radially symmetrical
- C) Marine, triploblastic & bilaterally symmetrical
- D) Fresh water, triploblastic & radially symmetrical

81.	Which one of the following is an annelid?								
	A)	Taenia	B)	Nereis		C)	Ascaris	D)	Fasciola
82.	Rearing of honey bee is called								
	A)	Sericulture	B)	Lac culture	e	C)	Vermiculture	D)	Apiculture
83.	Anadromous fishes move								
	A)	From sea to fresh water.				From sea to estuary.			
	C) From river to sea			D)		From estuary to sea			

84. Match the epithelial tissue given in column-I with its location given in column-II and choose the correct option.

Column I	Column II
(Epithelial tissue)	(Location)
a) Cuboidal	1. Epidermis of skin
b) Ciliated	2. Inner lining of blood vessels
c) Columnar	3. Inner surface of gall bladder
d) Squamous	4. Inner lining of fallopian tube
e) Keratinized	5. Lining of pancreatic duct squamous

A)	a- 5, b- 4, c- 2, d- 3, e- 1	B)	a- 3, b- 4, c- 5, d- 2, e-1
C)	a- 5, b- 4, c- 3, d-2, e- 1	D)	a- 3, b- 4, c- 5, d- 1, e-2

85. Which one of the following belongs to agricultural crop pest.

- A)Musca domesticaB)Pediculus humanis
- C) Dysdercus singulatus D) Tribolium castaneum
- 86. Bombykol belongs to
 - A) aggregation pheromone B) alarm pheromone
 - C) trail pheromone D) sex pheromone
- 87. A temporal series of organisms, populations, cells, or genes connected by a continuous line of descent from ancestor to descendent is called
 - A) Lineage B) Cline C) Deme D) Clutch

88.	A diagram that represents evolutionary relationships among organisms is known asA)phylogenetic treeB)pedigree chartC)cladogramD)phenogram						
89.	 Which among the following is not a hominid fossil A) Australopithecus afarensis B) Ardipithecus ramidus C) Homo rudolfensis D) Aegyptopithecus Zeuxis 						
90.	Hyper secretion of adrenal cortex causesA)Addison's diseaseB)Down's syndromeC)Cushing's syndromeD)Acromegaly						
91.	The activity of Leydig cells is governed by a pituitary hormone abbreviated asA)HCGB)ACTHC)FSHD)ICSH						
92.	The Baltimore system of classification is related toA)VirusB)FungiC)ProtozoaD)Bacteria						
93.	 Within biological communities, some species are important in determining the ability of a large number of other species to persist in the community. Such species are called A) Keystone species B) Allopatric species C) Sympatric species D) Threatened species 						
94.	 The evolutionary theories like arboreal theory, the visual predation theory and the angiosperm co-evolution theory are associated with A) primate origin B) chiropteran origin C) archeopteran origin D) odonate origin 						
95.	The period which marks the first appearance of trilobites isA)DevonianB)PermianC)CambrianD)Ordovician						
96.	Which among the following is/are true about complement system?1.lysis of infectious organism2.activation of inflammation3.opsonization4.immune clearanceA)1 and 2 onlyB)3 only						
	C) 2, 3 & 4 only D) All the above						
97.	The genetic disorder sickle-cell anemia is an example ofA)pleiotropyB)heterozygous dominanceC)epistasisD)homozygous dominance						
98.	Which of the following genotypes causes Klinefelter syndrome?A)XOB)XXC)XXYD)XYY						
99.	During this phase of cell cycle the sister chromatids are already separatedA)Metaphase II B)G2 phaseC)AnaphaseD)Prophase						

- 100. The PCR is used to
 - Obtain large quantity of protein A)
 - Obtain large quantity of DNA B)
 - C) Obtain large quantity of RNA
 - Convert DNA into RNA D)

101 What is the key difference between mitosis in plant cells and mitosis in animal cells?

- The chromosomes aren't duplicated during interphase in plant cells. A)
- B) Animal cell mitosis results in two daughter cells; plant mitosis produces three.

Binding of an incoming aminoacyl t-RNA

- C) The two daughter cells formed in plant cell mitosis aren't genetically identical.
- A cell plate is formed during mitosis in plant cells. D)
- 102. The termination codon is not A) AUG B) UAA C) UAG D) UGA
- 103. Wobble hypothesis was first proposed by
 - Nirenberg Watson and Crick A) B)
 - C) Watson D) Crick
- Which is the third step in elongation in bacteria during translation? 104.
 - Peptide bond formation B) A)
 - Translocation C) D) None of these
- 105. Linked genes do not assort independently because they:
 - A) are in the centromere
 - are always recessive B)
 - are on the same chromosome C)
 - D) are repulsing each other

106 In Drosophila, eye colour is sex-linked and red eye colour is dominant to white eye colour. Which of the following are not possible in a cross between a red-eyed male and a heterozygous female?

- A) Red-eyed male. White-eyed male. B)
- Carrier female. C) D) Homozygous white-eyed female

In Hamburger phenomenon the ions exchanged are 107.

- A) K^+ and Na^+ B) HCO3⁻ and Cl⁻
- C) H^+ and NO_3^- SO₂ and Cl D)

The RNA polymerase core enzyme convert into a holoenzyme by joining with 108. α sub unit B) β sub unit D)

- β ' sub unit σ sub unit A) C)
- 109. Pick the correct pair with respect to primers used in DNA replication.
 - RNA primer- for prokaryotes only A)
 - RNA primer- for both prokaryotes and eukaryotes B)
 - DNA primer- for both prokaryotes and eukaryotes C)
 - DNA primer-for eukaryotes only D)

110	The dideoxy sequencing method of DNA is also known asA)Maxem and Gilbert methodB)Sanger's enzymatic sequencingC)AutosequencingD)Pyrosequencing						ing			
111.	Shine A) C)	ne – Dalgarno sequence is a Open Reading frame Stop codon			B) D)	Ribosome binding site Start codon				
112.	Which A)	hich of the following histones bind to linker DNA? H1 B) H2A C) H2B						D)	Н3	
113.	In which stage of genetic engineering a probe is used?A)Cleaving DNAB)Recombining DNAC)CloningD)Screening									
114.	Repressor molecules bind toA)OperatorB)PromoterC)EnhancerD)Hormone response element									
115.		Which of the following contractile protein of skeletal muscle involve in ATPase activity?								
	A)	Troponin	B)	Myos	in	C)	Tubulin	D)	Tropomyosin	
116.	 How do steroid hormones produce their effects in cells? A) By activating key enzymes in metabolic pathway B) By promoting degradation of specific m-RNAs C) By activating translation of certain m-RNAs D) By binding to intracellular receptors and promoting transcription of specific genes 									
117.	Choose the correct order in geological time scaleA)palaeozoic> archaeozoic> coenozoicB)archaeozoic> palaeozoic> proterozoicC)palaeozoic> mesozoic> coenozoicD)mesozoic> archaeozoic> proterozoic									
118.	 Convergent evolution results in A) common set of characters in group of different ancestry B) dissimilar characters in closely related groups C) common set of characters in closely related groups D) random mating 									
119.	-	The cytochrome b and cytochrome c_1 of mitochondrial electron transport chain is located in enzyme							chain is	
	A)	Complex I	B)	Comp	lex II	C)	Complex III	D)	Complex IV	
120.	organi A)	oncept of limiti sm is known as Law of Minin	s num	ct of ma	B)	Comp	etition Exclusi		-	
	C)	Bergman's Ru	ule		D)		of Tolerance			