ZOOLOGY

1.	Totip	potent cells of sponges are :	
	(A)	Myocytes	
	(B)	Thesocytes	
	(C)	Archaeocytes	
	(D)	Chromocytes	
2. Which one of the following molluscan groups is p formation?		ch one of the following molluscan groups is primarily used in the nation?	pearl
	(A)	Monoplacophorans	10
	(B)	Cephalopods	
	(C)	Gastropods	
	(D)	Pelecypods	
3.	The	sporozoites of Plasmodium first attack:	
	(A)	R.B.C.	
	(B)	Liver cells	
	(C)	Muscles	
	(D)	Intestine	
4.	Wuc	chereria bancrofti is transmitted by :	
	(A)	Sand fly	
	(B)	Tsetse fly	
	(C)	Anopheles mosquito	
	(D)	Culex mosquito	
5.	She	ll is absent in:	
	(A)	Pila	
	(B)	Sepia	
	(C)	Octopus	
	(D)	Clams, mussels and oysters	
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6.	remain is the larva of :					
	(A)	Holothuroidea				
	(B)	Asteroidea				
	(C)	Crinoidea				
	(D)	Echinoidea				
7.	The	e enzyme hexokinase which catalyses glucose to glucose 6-phosphate in colysis is inhibited by glucose 6-phosphate. This is an example of :				
	(A)	Feedback allosteric inhibition				
	(B)	Positive feedback				
	(C)	Competitive inhibition				
	(D)	Non-competitive inhibition				
8.	Whi	Which of the following is important in oxidative fat metabolism?				
	(A)	Acetyle Co-A				
	(B)	CO ₂				
	(C)	Glucose				
	(D)	Pyruvic acid				
9.	The cycle	The harmful ammonia is converted into urea in the liver cells under ornithine cycle. It is known as:				
	(A)	. Ammonification				
	(B)	Transamination				
	(C)	Excretion				
	(D)	Deamination				
10.	Pyrio	Pyridoxine is:				
	(A)	Vitamin B ₁				
	(B)	Vitamin B ₈				
	(C)	Vitamin B ₁₂				
	(D)	Vitamin C				
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11.	Accre	Accretionary growth is due to:			
	(A)	Reserve cells			
	(B)	Meristematic cells			
	(C)	Embryonic cells			
	(D)	Differentiated cells			
12.	Mito	chondria can be separated by :			
	(A)	Electrophoresis			
	(B)	Centrifugation			
	(C)	Both (A) and (B)			
	(D)	Lysis			
13.	When a carrier protein transports a solute across the membrane, the proces is called:				
88	(A)	Uniport			
	(B)	Symport			
	(C)	Antiport			
	(D)	Cotransport			
14.	A ke	key event in apoptosis is the activation of a series of enzymes called:			
	(A)	Phosphatases			
	(B)	Caspases			
	(C)	Lipases			
	(D)	Esterases			
15.	Desmosomes are concerned with:				
	(A)	Gell adherence			
	(B)	Cell division			
	(C)	Cellular excretion			
	(D)	Cytolysis			

	(B)	Axon
	(C)	Glycocalyx
	(D)	. Terminal bar
17.	Can they	cer cells are more easily damaged by radiation than normal cells because
	(A)	are different in structure
	(B)	are non-dividing
	(C)	are starved by nutrition
	(D)	undergo rapid division
18.	Whi	ch occurs in frog's development from blastula to gastrula?
	(A)	Epiboly, cleavage and morula
	(B)	Epiboly, invagination and cleavage
	(C)	Involution, invagination and emboly
	(D)	Epiboly, involution and invagination
19.	Foet	al membrane which keeps the embryo shock proof is:
	(A)	amnion
	(B)	chorion
	(C)	allantois
	(D)	yolk sac
20.	Com	pensatory hypertrophy is referred to the phenomenon when:
	(A)	an organ redevelops
	(B)	a small piece of body produces complete animal
	(C)	one of the paired organs is lost and the other begins to grow in size
	(D)	an organ is automatically shed
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16. The unit of gap junction is named as:

(A) Connexon

21.	In fi	shes, the neuromast organs are:	
	(A)	chemoreceptors	
	(B)	gustoreceptors	
	(C)	olfactoreceptors	
200	(D)	rheoreceptors	
22.	Most	t important characteristic of a mammal is :	
	(A)	presence of the codont dentition	
	(B)	a four chambered heart	
	(C)	presence of corpus callosum in brain	
	(D)	presence of diaphragm	
23.	Stra	tum corneum is absent in :	
	(A)	fishes	
	(B)	amphibians	
	(C)	reptiles	
	(D)	aves	
24.	A p	ortal system is one in which:	
	(A)	a vein starts from an organ and ends up in the heart	
	(B)	an artery breaks up in an organ and restarts by union of its capillaries	
2 8	(C)	the blood from the gut is brought into kidneys before it is poured into post caval	
	(D)	a vein breaks up in an organ into capillaries and restarts by their union as a new vein in the same organ	75000
25.	The	dorsal root of spinal cord contains :	
	(A)	Somatic sensory fibres	
(*)	(B)	Somatic motor fibres	
	(C)	Visceral sensory fibres	
	(D)	Visceral motor fibres	
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26.	Rea nep	bsorption of useful substances back into the blood from the filtrate in a			
	(A)	proximal convoluted tubule			
	(B)	loop of Henle			
	(C)	distal convoluted tubule			
	(D)	collecting duct			
27.	Fish to s	Fishes which spend a major part of their lives in freshwater and migrate to sea to breed are known as:			
	(A)	Anadromous fishes			
	(B)	Catadromous fishes			
4.	(C)	Potamodromous fishes			
	(D)	Oceanodromous fishes			
28.	O ₂ dissociation curve of Hb is:				
	(A)	Hyperbolic			
	(B)	Linear			
	(C)	Sigmoid			
	(D)	Stationary			
29.	Which one of the following steps in the clotting of blood will not occur in the absence of vitamin K?				
	(A)	Formation of thromboplastin			
	(B)	Synthesis of prothrombin			
	(C)	Conversion of prothrombin to thrombin			
	(D)	Conversion of fibrinogen to fibrin			
30.	ln m	nammals, the spermatogenesis is controlled by:			
	(A)	FSH			
	(B)	LH			
	(C)	GH			
*	(D)	LH and GH			

31.	Whi	ch one is a test cross?
	(A)	Tt × Tt
	(B)	TT. × Tt
	(C)	$TT \times TT$
	(D)	Tt × tt
32.		n linked characters or genes are inherited together through two or more rations, it is called:
	(A)	Complete linkage
	(B)	Continuous linkage
	(C)	Incomplete linkage
	(D)	Consistent linkage
33.	Epis	tasis implies;
	(A)	one pair of genes can completely mask the expression of another pair of genes
	(B)	one pair of genes independently controls a particular phenotype
	(C)	one pair of genes enhances the phenotype expression of another pair of genes
	(D)	many genes collectively control a particular phenotype
34.		an who carries a sex linked gene on his Y chromosome will transmit this to:
	(A)	Half of his sons
	(B)	Half of his daughters
10	(C)	All his sons
	(D)	All his daughters
35.		erson with 47 chromosomes due to an additional Y chromosome suffers a condition called :
	(A)	Turner'syndrome
	(B)	Klinefelter's syndrome
	(C)	Super female
	(D)	Down's syndrome

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36.	The are	genes which remain confined to differential region of Y-chromosome only:			
	(A)	Holandric genes			
	(B)	Autosomal genes			
	(C)	Mutant genes			
	(D)	Completely sex-linked genes			
37.	Oka	zaki fragments are seen during :			
	(A)	Replication			
	(B)	Transduction			
	(C)	Transcription			
	(D)	Translation			
38.	The	process of m-RNA synthesis in DNA template is known as:			
	(A)	Transcription			
	(B)	Translation			
	(C)	Transduction			
	(D)	Transformation			
39,	Hard	Hardy-Weinberg's law is for :			
	(A)	frequency of distribution of male and female in a population			
	(B)	frequency of distribution of genes in a Mendelian population			
	(C)	frequency of genetic drift in a population			
	(D)	frequency of evolution of new species in a population			
40.	Gene	tic drift:			
	(A)	is an orderly change in gene frequencies			
	(B)	produces greatest fluctuations in large populations			
	(C)	is the random change in gene frequencies			
	(D)	has nothing in common with inbreeding			
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41.	Pebri	ne is a disease of:
	(A)	Honey-bee
	(B)	Fish
	(C)	Silkworm
	(D)	Lac insect
42.	Quee	n is specified for:
	(A)	Administration
	(B)	Making hive
	(C)	Egg laying
	(D)	Collection of food
43.	The	immunity acquired after the introduction of a vaccine is called:
	(A)	Passive immunity
82	(B)	Active immunity
	(C)	Acquired immunity
	(D)	Natural immunity
44.	Anti glob	body formation and immunity production is done by a protein called ulin present in the :
	. (A)	Stroma of R.B.C.
	(B)	Haemoglobin of R.B.C.
	(C)	Plasma
	(D)	Blood platelets
45.	sepa	ong the following, which technique is being used in recent years for aration of large size DNA molecules, sometimes representing whole chroomes?
	(A)	Gel Electrophoresis technique
	(B)	Polyacrylamide Gel Electrophoresis technique
	(C)	Pulsed field Gel Electrophoresis technique
	(D)	All of the above
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46,	The	technique used for blot-transfer of RNA is described as :
	(A)	
	(B)	**************************************
	(C)	Southern blotting
	(D)	Autoradiography
47.	Whi	ch of the following are examples of input devices?
	(A)	Visual display unit, dot matrix printer, laser printer
	(B)	Keyboard, mouse, optical mark reader
	(C)	Arithmetic and logic unit, control unit
	(D)	RAM, ROM, PROM
48.	1 by	te is equal to:
	(A)	2 bits
	(B)	8 bits
	(C)	16 bits
	(D)	32 bits
49.	TCP	TP is neccessary if one is to connect to the :
	(A)	Phone lines
	(B)	LAN
	(C)	Internet
	(D)	Server
50.	An or	rganisation's introductory webpage is called its :
8	(A)	Portal
	(B)	Vortal
	(C)	Homepage
	(D)	Website
Z00.		10

51.	In which of the ecosystems, the species diversity is lowest?				
	(A)				
	(B)	Descrts			
	(C)	Grasslands			
	(D)	Tundra			
52.	A fo	orce which acts against the achievement of the highest possible level to ulation growth is known as:			
	(A)	Population pressure			
	(B)	Saturation level			
10	(C)	Carrying capacity			
	(D)	Environmental resistance			
53.	The rate at which the consumers resynthesize the energy yielding substances is termed as:				
	(A)	Gross productivity			
	(B)	Secondary productivity			
	(C)	Primary productivity			
	(D)	Net productivity			
54.	Som	e animals turn parasite if they get an opportunity. They are called :			
	(A)	Ectoparasites			
	(B)	Endoparasites			
	(C)	Facultative parasites			
	(D)	Obligatory parasites			
55.	Most	serious threat to wild-life comes from:			
	(A)	Introduction of exotic species			
	(B)	Over exploitation			
	(C)	International trade			
	(D)	Habitat destruction			
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56.	The toxic effect of cabron monoxide is due to its great affinity for haemoglobin as compared to oxygen by approximately:
	(A) 1000 times
	(B) 200 times
	(C) 20 times
	(D) 2 times
57.	Evolution is best defined as:
	(A) Inheritance of acquired characters
	(B) Descent by modifications
	(C) Spontaneous generation
	(D) Struggle for existence
58.	The evolution of a species is based upon sum total of adaptive changes preserved by :
100	(A) Natural selection
	(B) Man conservation
	(C) Isolation
	(D) Speciation
59.	If an animal learns slowly after several trials and errors, it is known as:
	(A) Selective learning
EQ.	(B) Insight learning
	(C) Both (A) and (B)
	(D) None of the above
60.	The males of an ant colony are also known as:
	(A) Aners
	(B) Gynes
	(C) Ergates
	(D) Dinergates
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