ZOOLOGY (FINAL)

1.	Rena	portal system is absent in which of the following groups?
	(A)	Amphibians
	(B)	Reptiles
	(C)	Aves
	(D)	Mammals
2.	Graa	fian follicles are found in
	(4)	Comin
	(A)	Cervix
	(B)	Uterus Ovi du et
	(C)	Oviduct
	(D)	Ovary
3.	Gluco	oneogenesis refers to
	(A)	Conversion of proteins and fats into glucose
	(B)	Conversion of glycogen into glucose
	(C)	Conversion of glucose into glycogen
	(D)	None of the above
4.	The c	laspers of shark are modified
	(A)	Pectoral fins
	(B)	Dorsal fins
	(C)	Pelvic fins
	(D)	Caudal fin
	(D)	Cuudul III
5.	Whic	h of the following is the larva of starfish?
	(A)	Auricularia
	(B)	Glochidium

(C) Trochophore(D) Bipinnaria

(A) Coxal gland(B) Book lungs(C) Crural gland(D) Trachea

Respiratory organs of peripatus are

7. Antibacterial enzyme "Lysozyme" is secreted by		acterial enzyme "Lysozyme" is secreted by
	(A)	Pancreas
	(B)	Gastric glands
	(C)	_
	(D)	Salivary glands
	` /	
8.	Initiat	cion codons for protein synthesis are
	(A)	UUU and GGG
	(B)	AUG and GUA
	(C)	AAU and UAA
	(D)	GUG and AUG
9.	In euk	caryotes, a DNA sequence for a functional gene is called
	(A)	
	(B)	Muton
	(C)	
	(D)	Cistron
10.	Hemo	ophilia and Colour blindness are
	(A)	
	(B)	
	(C)	
	(D)	Sex-limited traits
11.	Durin	g cell division, nuclear membrane is formed by
	(A)	Endoplasmic reticulum
	(B)	Plasma membrane
	(C)	Nucleolus
	(D)	Ribosome
12.	The ty	ype of chromosome in which centromere is located at the tip is called
	(A)	Telocentric
	(B)	Sub-metacentric
	(C)	Acrocentric
	(D)	Metacentric

13. NEERI is the abbreviated name for

- (A) National Ethological and Ecological Research Institute
- (B) National Eugenics and Ecological Research Institute
- (C) National Environmental and Engineering Research Institute
- (D) National Ethological and Environment Research Institute

14. Synecology deals with

- (A) Ecology of species
- (B) Ecology of Communities
- (C) Ecology of populations
- (D) None of the above

15. Name the proteins present in silk

- (A) Actin and Myosin
- (B) Fibrin and Fibrinogen
- (C) Fibroin and Sericin
- (D) None of the above

16. Which type of canal system is found in *Leucosolenia*?

- (A) Ascon
- (B) Leucon
- (C) Rhagon
- (D) Syconoid

17. The term "shell-fish" includes

- (A) Prawns and lobsters
- (B) Crabs and oysters
- (C) Clams and mussels
- (D) All of the above

18. The sequence of origin of life is

- (A) Amino acids-proteins-chlorophyll
- (B) Chlorophyll-Starch-Glycogen
- (C) Nucleic acid-amino acids-chlorophyll
- (D) Chlorophyll-Nucleic acid-amino acid

	(B) (C)	Clarius batrachus Channa stratus Wallago attu Labeo rohita
21.	Respin	ratory acidosis results from
	(A)	Low levels of CO ₂ in the blood
	(B)	High levels of CO ₂ in the blood
	(C)	High levels of lactate in the blood
	(D)	Low levels of lactate in the blood
22.	Which	n of the following processes is active in fasting state?
	(A)	Gluconeogenesis
	, ,	Lipogenesis
		Glycogenesis
		Ketogenesis
23.	Major	aerosol pollutant generated by refrigerators is
	(A) (B) (C) (D)	SO ₂ CH ₄ CCl ₄ CFCs
24.	Which	n of the following is an example of <i>ex-situ</i> conservation?
∠ ¬,	V IIICI	of the following is an example of ex suu conservation:
	(A)	Wild life sanctuaries
	(B)	Sacred grooves
	(C)	Seed bank
	(D)	National park

Pituitary gland does not control the secretory activity of

(A) Adrenal medulla

Which of the following is not a catfish?

(B) Thyroid(C) Adrenal cortex

(D) Ovary

19.

25.	Ankylosaurus is also known as			
	(A)	Flying dinosaur		
		Armoured dinosaur		
	, ,	Horned Dinosaur		
		Apatosaurus		
	(D)	7 ipittosaurus		
26.	Whic	h of the following is a limbless amphibian?		
	(A)	Ichthyophis		
		Proteus		
		Salamander		
		Ambystoma		
27.	Jacob	son's organ is concerned with		
	(A)	Smell		
	(B)	Touch		
	(C)	Hearing		
	(D)	Sight		
28.	Whiel	h of the following is a fungal disease of silkworm?		
20.	W IIIC	h of the following is a fungal disease of silkworm?		
	(A)	Flacherie		
		Muscardine		
		Grasserie		
		Pebrine		
	` _			
29.	How	many cervical vertebrae are present in mammals?		
	(A)	16		
	(B)	10		
	(C)	12		
	(D)	7		
30.	Which	h of the following is a homeothermic animal?		
	(A)	Fish		
	(B)	Frog		
	(C)	Lizard		
	(D)	None of the above		

31.	Whic	h of the following is a RNA-dependant DNA polymerase?
	(A)	Transcriptase
	(B)	•
	(C)	
	(D)	
	()	
32.	Whic	h of the following is a freshwater form?
	(A)	Mytilus
	(B)	Sepia
	(C)	Unio
	(D)	Loligo
2.2	D.1.1	
33.	DNA	finger-printing was developed by
	(A)	Fredrick Sanger
	(B)	
	(C)	
	(D)	
	` /	
34.	Acro	negaly is caused by
	(A)	Excess of somatotrophic hormone
	` ′	Deficiency of thyroxin
	(C)	
	(D)	
	(2)	Ziteess of darvillanie
2.5		
35.	In pai	ncreas, the cells that secrete digestive enzymes are arranged in clusters called
	(A)	Islets
	(B)	Crypts
	(C)	Acini
	(D)	Delta cells
	1	
36.	Whic	h of the following is a true coelomate?
<i>5</i> 0.	VV IIIC.	if of the following is a true coefolilate:
	(A)	Roundworm
	(B)	Tapeworm
	(C)	Hookworm
	(D)	Earthworm

37.	Amnocoete is the larval form of
	 (A) Petromyzon (B) Balanoglossus (C) Branchiostoma (D) Hippocampus

- 38. The color of oxygenated haemocyanin, a respiratory pigment in mollusks, is
 - (A) Red
 - (B) Green
 - (C) Blue
 - (D) Colorless
- 39. Which one of the following is not a mammalian character in Platypus?
 - (A) Presence of mammary glands
 - (B) Presence of cloaca
 - (C) Presence of sebaceous glands
 - (D) Presence of hair
- 40. Podocyte cells are found in
 - (A) Ducts of Bellini
 - (B) Glomeruli
 - (C) Bowman's Capsule
 - (D) Distal convoluted tubule
- 41. *Amphioxus* (Branchiostomata) belongs to the group
 - (A) Hemichordate
 - (B) Cephalochordata
 - (C) Urochordata
 - (D) Vertebrata
- 42. The "Red Data Book" is published by
 - (A) Convension on International Trade in Endangered Species of Wild Fauna and Flora
 - (B) International Union for Conservation of Nature and Natural Recourses
 - (C) National Wild Life Plan
 - (D) National Environmental Engineering Research Institute

43.	Eutrophication results in the reduction of		
	(A)	Mineral salts	
	(B)		
	, ,	Dissolved Oxygen	
	(D)	Dissolved Nitrates	
	()		
44.	The to	endency of two genes remaining together on a chromosome during crossing over	
	is kno	own as	
	(A)	11 0	
	(B)	Recombination	
	(C)	Wh. Wilmonton, Wa	
	(D)	Genotype	
45.	Alzhe	eimer's disease in humans is associated with the deficiency of	
ъ.	7 XIZIIC	of the disease in numans is associated with the deficiency of	
	(A)	Acetylcholine	
	(B)	GABA	
	(C)	Glutamic acid	
	(D)	Dopamine	
46.	The f	ins in Ichthyosaurus and dolphin represent	
	(A)	Convergent evolution	
	(B)		
	(C)	Divergent evolution	
	(D)	Co-evolution Co-evolution	
47.	Trans	ition zone between two ecosystems is	
	(4)	Pastras	
	(A) (B)	Ecotype Niche	
	(C)	Ecotone	
	(D)	Biome	
	(D)	Biolic	
4			
48.	Muga	silk is produced by	
	(A)	Bombyx mori	
	(B)	Antheraea mylitta	
	(C)	Antheraea assamensis	

(D) Antheraea pernyi

	(C)	Duplication
	(D)	1
	(D)	niversion
50.	Migra	ation of fish from sea to freshwater for spawning is known as
	(A)	Anadromous migration
	, ,	Catadromous migration
		Omnidromous migration
	, ,	Amphidromous migration
	(2)	· impination on ingranor
51.	Suicio	de bags of the eukaryotic cells are
	(A)	Golgi bodies
	, ,	Endoplasmic reticulum
		Mitochondria
		Lysosomes
	· /	
52.	Aurel	ia belongs to the class
	(A)	Scyphozoa
		Anthozoa
		Hydrozoa
	(D)	
	()	
53.	The v	enom glands of a snake are modified
	(A)	Buccal glands
	(B)	Parotid glands
	(C)	Palatine glands
	(D)	Lacrimal glands
	\mathcal{F}	
- A	4571	
54.	Whic	h of the following glands is related with immunity?
	(A)	Pineal
	(B)	Adrenal
	(C)	Thyroid
	(D)	Thymus

Bar eye mutation in *Drosophila* is due to

(A) Deletion(B) Translocation

	(A)	Nereis
	(B)	Aphrodita
	(C)	Polynoe
	(D)	Terebella
56.	The th	heory of inheritance of acquired characters was proposed by
	(A)	Darwin
	(B)	Lamarck
	(C)	De Vries
	(D)	Weismann
57.	Whic	h of the following is commonly known as 'Portuguese man of war'?
	(A)	Obelia
	(B)	Hydra
	(C)	Aurelia
	(D)	Physalia
58.	In mo	olluscs, the radula is related to the
50.	III IIIC	inuses, the radula is related to the
	(A)	Digestive system
	(B)	Respiratory system
	(C)	Excretory system
	(D)	Reproductive system
59.	The f	ather of white revolution in India is
	(A)	Salim Ali
		Birbal Sahani
	70.	Varghese Kurien
	(D)	Sunderlal Hora
	1	
60.	PCR -	Polymerase chain reaction – is useful in
	(A)	Cutting a specific segment of DNA
	(B)	Amplifying a specific segment of DNA
	(C)	Splicing a specific segment of DNA
	(D)	All of the above

Which of the following is a sedentary polychaete?

61.	Eryth	roblastosis foetalis is also called
	(A)	Sickle cell anaemia
	(B)	Bleeder's disease
	(C)	Proton defect
	(D)	Haemolytic disease of the new-born
	(-)	
62.	Scien	tific name of our National bird is
	(A)	Pavo cristatus
	(B)	Columba livia
	(C)	Gallus gallus
	(D)	Corvus spledens
63.	The p	rocess of digestion proceeds in the order
	(A)	Digestion \rightarrow Ingestion \rightarrow Solution \rightarrow Absorption \rightarrow Egestion
	(B)	Ingestion \rightarrow Digestion \rightarrow Absorption \rightarrow Assimilation \rightarrow Egestion
	(C)	Ingestion \rightarrow Solution \rightarrow Absorption \rightarrow Accumulation \rightarrow Egestion
	(D)	Ingestion \rightarrow Digestion \rightarrow Absorption \rightarrow Solution \rightarrow Egestion
	` /	
64.	Which	h of the following is a living fossil?
	(A)	Euglena
	(B)	Sycon
	(C)	Limulus
	(D)	Balanoglossus
	(D)	Balanoglossal
(5	T., 1.1.	de de Cible de la comunicación de de
65.	in bir	ds, the flight muscles are attached to the
	(A)	Synsacrum
	(B)	Pygostyle
	` /	Sternum
	1,685	Thoracic mass
((D)	Thoracic mass
66.	Both	Polyp and medusa are found in
00.		1 01) p 4114 1114 4114 111
	(A)	Hydrozoans
	(B)	Schyphozoans
	, ,	Anthozoans
	(D)	All coelenterates

67.	Wing	s of insects and birds are examples of
	(A)	Analogous organs
	(B)	Homologous organs
	` ′	Vestigial organs
	(D)	Divergent evolution
68.	Which	h of the following organs synthesizes urea?
	(A)	Duodenum
	(B)	Kidney
	(C)	Liver
	(D)	Pancreas
69.	Gills	are covered by operculum in
0).	Oms	are covered by opereurum in
	(A)	Cartilaginous fishes only
	(B)	Bony fishes only
	(C)	Both Cartilaginous fishes and bony fishes
	(D)	Fishes and aquatic reptiles
70.	Which	h of the following statements is correct about frog?
	(A)	Adults are ammonotelic and larvae are ureotelic
	(B)	Larvae are ammonotelic and adults are ureotelic
	(C) (D)	Both adult and larva are ammonotelic Both adult and larva are ureotelic
	(D)	Both adult and larva are dicotene
71.	The n	umber and sequence of amino acids in a protein molecule are determined by the
/1.	1110 11	uniber and sequence of animo acros in a protein molecule are determined by the
	(A)	DNA molecule
	(B)	mRNA molecule
	.45	Enzymes involved in the process of translation
	(D)	rRNA molecule
	1	
72.	ABO	– blood grouping in man is controlled by
	(A)	Multiple alleles
	(B)	Multiple genes
	(C)	Sex – linked genes
	(D)	Y- linked genes

	(A)	Glycosidic bond
	(B)	Ester bond
	(C)	Hydrogen bond
	(D)	Phosphodiester bond
74.	Acros	some is derived from the
	(A)	Mitochondria
	(B)	Golgi apparatus
	(C)	Ribosomes
	(D)	Lysosomes
75.	Calci	um levels decrease in blood due to hyposecretion of
	(A)	
	(B)	Calcitonin
	(C)	Thyroxine
	(D)	Adrenaline
76.	Pyrid	oxal phosphate serves as transient carriers of
	(A)	Electrons
		Acyl groups
	(C)	
	(D)	-
	(D)	Ammo groups
77.	Glyco	olytic pathway occurs in
	(A)	Chloroplast
		Glyoxysomes
		Mitochondria
	(D)	Cytosol
	4	
78.	Numl	per of maximum possible isomers for fructose is
	(A)	4
	(B)	8
	(C)	16
	(D)	32

In a polysaccharide, the individual monosaccharides are linked by a

79.	The l	eakage of blood, lymph, or other fluid from a blood vessel into the tissue is
	(A)	Necroptosis
	(B)	Anoikis
	(C)	Extravasation
	(D)	Metastasis
80.		the only class of intercellular junctions in plants that directly connect the
	Суюр	lasm of adjacent cells
	(A)	Connexin
	(B)	Plasmodesmata
	(C)	ICAM
	(D)	Selectin
81.	Whic	h anti-cancer drug interferes with breakdown of microtubules required for cell
011	divisi	
	G1 (151	
	(A)	Methotrexate
	(B)	Etoposide
	(C)	5-fluorouracil
	(D)	Paclitaxel
82.	If a L	Prosophila embryo doesn't have head and thorax, it is due to the absence of the
	gene	
	C	
	(A)	Torso
	(B)	Vasa
	(C)	Oskar
	(D)	Bicoid
83.	Cells	that are able to self-renew by dividing and developing into the three primary
		s of cells that make up a human body
	(A)	Pluripotent
	(B)	Totipotent
	(C)	Determined Differentiated
	(D)	Differentiated

- 84. Which of the following is a conceptual domain that generates intercellular signaling molecules to induce the dorsal organizer in early embryonic development?
 - (A) Brachet's cleft
 - (B) Nieuwkoop center
 - (C) Spemann's organizer
 - (D) Hensen's node
- 85. Which of the following methods is involved in randomly breaking up the genome into small DNA fragments that are sequenced individually?
 - (A) Shot gun sequencing
 - (B) Illumina sequencing
 - (C) 454 sequencing
 - (D) Sequencing of BAC libraries
- 86. Which type of immunological application is used for either monoclonal or polyclonal antibodies?
 - (A) ELISA
 - (B) Bacterial agglutination
 - (C) Diagnostic tissue typing
 - (D) None of the above
- 87. RACE method is used for
 - (A) DNA-protein interaction
 - (B) FAM
 - (C) Determining the ends of mRNA
 - (D) Construction of synthetic DNA
- 88. Which one of the following techniques is used to study the RNA?
 - (A) Northern blotting
 - (B) In situ hybridization
 - (C) Southern blotting
 - (D) Western blotting
- 89. A researcher would like to purify specific cell populations based on phenotypes detected by flow cytometry. Which one of the following methods would be best suited for the purpose?
 - (A) Immunofluorescence microscopy
 - (B) Fluorescence in situ hybridization
 - (C) Enzyme linked immunosorbent assay
 - (D) Fluorescence activated cell sorting

90.	What statistical test is used for analysing categorical data from inheritance studies?
	(A) Standard deviation
	(B) Coefficient variation
	(C) Chi-square test
	(D) t-Test
91.	Who is regarded as the father of biostatistics?
	(A) Fischer
	(B) Karl pearson
	(C) Francis Galton
	(D) Francis Bacon
92.	A bag contains 10 black and 20 white balls, a ball is drawn at random. What is the
12.	probability that it is black?
	probability that it is black:
	(A) 1/2
	(B) 1/3
	(C) 0
	(D) 3
93.	Which of the following is a neurotransmitter and a modulator of pain perception by
75.	altering cellular signaling pathway?
	altering centalar signating patriway.
	(A) Neurotensin
	(B) Eukephalin
	(C) Serotonin
	(D) Substance P
94.	Which one of the following converts polypeptide to amino acids?
	(A) Erepsin
	(B) Steapsin
	(C) Pepsin(D) Enterokinase
	(D) Enteroxinase
95.	Which one of the following stimulates melanocytes to produce melanin?
	(A) Adrenocorticotropic hormone
	(B) β-lipotropin
	(C) α-melanocyte-stimulating hormone
	(D) β-endotropin

recycling and iron balance? (A) Cobalophilin (B) Hephaestin (C) Hepcidin (D) Na ⁺ -cotransporter 97. Which of the following plays a central role in the coagulation cascade at the point of convergence of the intrinsic and extrinsic pathways? (A) Albumin (B) Stuart-Prower factor (C) Antihemophilic factor (D) Hageman factor 98. Which of the following is responsible for allowing you to feel pleasure, satisfaction and motivation?	96.	Whic	h one of the following hormones is responsible for the regulation of iron
 (B) Hephaestin (C) Hepcidin (D) Na⁺-cotransporter 97. Which of the following plays a central role in the coagulation cascade at the point of convergence of the intrinsic and extrinsic pathways? (A) Albumin (B) Stuart-Prower factor (C) Antihemophilic factor (D) Hageman factor 98. Which of the following is responsible for allowing you to feel pleasure, satisfaction and motivation? 		recyc	ling and iron balance?
convergence of the intrinsic and extrinsic pathways? (A) Albumin (B) Stuart-Prower factor (C) Antihemophilic factor (D) Hageman factor 98. Which of the following is responsible for allowing you to feel pleasure, satisfaction and motivation?		(B) (C)	Hephaestin Hepcidin
 (A) Albumin (B) Stuart-Prower factor (C) Antihemophilic factor (D) Hageman factor 98. Which of the following is responsible for allowing you to feel pleasure, satisfaction and motivation?	97.		
 (B) Stuart-Prower factor (C) Antihemophilic factor (D) Hageman factor 98. Which of the following is responsible for allowing you to feel pleasure, satisfaction and motivation? 		conve	rgence of the intrinsic and extrinsic pathways?
and motivation?		(B) (C)	Stuart-Prower factor Antihemophilic factor
	98.	Whic	h of the following is responsible for allowing you to feel pleasure, satisfaction
(A) Eninophrina		and m	notivation?
(A) Epinephrine (B) Acetylcholine (C) Dopamine (D) Norepinephrine		(C)	Dopamine
99. A molecule capable of eliciting an immune response by an organism's immune	99.	A mo	plecule capable of eliciting an immune response by an organism's immune
system is called	,,,		
(A) Carrier (B) Antigen (C) Hapten (D) Immunogen		(B) (C)	Antigen Hapten
100. A lipid mediator that plays a pivotal role in acute and chronic inflammation and	100.	A lip	id mediator that plays a pivotal role in acute and chronic inflammation and
allergic diseases is	<u> </u>	allerg	ic diseases is
(A) Thromboxane	4	(A)	Thromboxane
(B) Leukotriene		(B)	Leukotriene
(C) TGFβ(D) Chondroitin			·
(D) Chondrottii		(D)	Chondroitin
101 brings changes on bacterial surface by making it more gram positive	101.		brings changes on bacterial surface by making it more gram positive
(A) Phagocytosis		` ′	
(B) Release of antibodies like IgG(C) Antibody mediated agglutination		, ,	-
(D) Anti-microbial peptides		` ′	·

102.		induces cell death to eliminate viruses and tumor cells
	<i>(</i>) \	
	(A)	Interferon lamda
	(B)	Peroxynitrite
	(C)	Lysozyme
	(D)	Granzyme
103.	The p	phagocytes were discovered by
	(A)	Edward Jenner
	(B)	Elie Metchnikoff
	(C)	
	(D)	Robert Koch
101	****	
104.	Whic	h one is the primary inhibitory neurotransmitter for the central nervous system?
	(A)	Serotonin
	(B)	William All All All All All All All All All Al
	(C)	1
	(D)	IL 8
105.	An as	ssociation between two organisms in which one benefits and the other derives
	neithe	er benefit nor harm is
	<i>(</i> A)	
	(A)	
	(B)	Mutualism
	(C) (D)	Competition Commensalism
	(D)	Commensatism
106		
106.	A sta	te characterised by low metabolic process in animals during summer is
	(A)	Aestivation
	(B)	Concealment
	(C)	Mimicry
	(D)	Hibernation
107.	Re-es	stablishment in a devastated forest over a long time proceeds in the order
	(A)	Grasses → herbs and shrubs → woody trees
	(\mathbf{D})	Herbs and shrubs \rightarrow grasses \rightarrow woody trees
	(B)	· · · · · · · · · · · · · · · · · · ·
	(C) (D)	Herbs and shrubs → woody trees → grasses Grasses → woody trees → herbs and shrubs

- 108. Lower trophic level in a biological network affects the community structure of a higher trophic level by means of

 (A) Bottom-up control
 (B) Eutrophication
 (C) Top-down control
 (D) Trophic pyramid

 109. Place of a living organism in the biotic environment and its relation to food and enemies is called
 - (A) Niche
 - (B) Biotas
 - (C) Trophic level
 - (D) Habitat
- 110. Which of the following describes the situation in which co-occurring species share parts of their niche space with each other?
 - (A) Niche differentiation
 - (B) Niche complementarity
 - (C) Niche overlap
 - (D) Amount of limiting resource is greater than the number of species
- 111. Modern fauna diversification occurred during
 - (A) Cenozoic
 - (B) Cretaceous
 - (C) Paleozoic
 - (D) Quaternary
- 112. The environmental agreement on the control of transboundary movement of hazardous wastes and their disposal is
 - (A) Basel convention
 - (B) Cartagena protocol
 - (C) Kyoto protocol
 - (D) Stockholm convention
- 113. The key protected animal present in Jaldapara National Park, West Bengal is
 - (A) Indian Rhinoceros
 - (B) Hangul
 - (C) Feral Horse
 - (D) Asiatic Lion

114.	Whic	h one of the following is a critically endangered species?
	(A)	White bellied Heron
	(B)	Ganges river dolphin
	(C) (D)	Gaur Clouded leopard
	(D)	Cioudeu icoparu
115.		said "Earth's geology and natural history have been shaped by periods of rophic extinction and new creations"?
	(A)	Wallace
	(B) (C)	Lyell Lamark
	(D)	Cuvier
116.	The c	hange in frequency of an existing gene variant in the population due to random
	chanc	e is called
	(A)	Mutation
	(B)	Random mating
	(C)	Genetic drift
	(D)	Natural selection
115		
117.	Apose	ematism in animals is
	(A)	Acquiring food
	(B)	Avoiding predation
	(C) (D)	Territory defence Thermoregulation
	(2)	
118.		refers to the same or similar characters or phenotypes produced by
	specie	es from independent lineages under similar selective pressures
	(A)	Adaptive convergence
	(B)	Parallel evolution
The state of the s	(C)	Adaptive radiation
	(D)	Co-adaptation Co-adaptation
119.	Indivi	dual behavior where fitness of other increases at the expense of self
	(A)	Agonistic behavior
	(B)	Hierarchical behavior
	(C) (D)	Altruistic behavior Cooperative behavior
	(D)	Cooperative behavior

120.	The fo	ood of Barn swallow bird mainly includes
	(A)	Fruits
	(B)	Insects
	(C)	Nectar
	(D)	Seeds
121.	Which	h rule/effect states that body form or shape is linear in warm climates and more
	round	ed and compact in cold climates?
	(A)	Allen's rule
	(B)	Bergmann's rule
	(C)	Allee effect
	(D)	Hamilton's rule
	()	
122.	A spe	ecific type of natural selection that actively selects against the intermediate in
	popul	ation, favoring both extremes of the spectrum is called
	(A)	Neutral selection
	(B)	Disruptive selection
	(C)	Directional selection
	(D)	Stabilizing selection
123.	Maxii	mum number of animal species belong to
	(A)	Mammalia
	(B)	Aves
	(C)	Pisces
	(D)	Arthropoda
124.	The w	veb of the spider is made up of
	(A)	Carbohydrate polymers
	(B)	Proteins
	(C)	Lipids
The state of the s	(D)	Polysaccharides
	A. T.	
125.	Whiel	h of the following is an example of bilaterally symmetrical and triploblastic
125.	anima	
	amma	и.
	(A)	Cnidarians
	(B)	Sponges
	(C)	Ctenophores
	(D)	Round worms

a

126.		aracteristic feature unique to the members of phylum Coelenterata is the nce of
	(A) (B) (C) (D)	Nematocysts Flame cells Hermaphroditism Polymorphism
127.	Cnida	arians, which exhibit only the polyp body form are
	(A)	Cubozoa
	(A) (B)	Scyphozoa
	(C)	Anthozoa
	(D)	Hydrozoa
128.	The g	roup of molluscs, which possess eyes similar to vertebrates is
	(A)	Bivalvia
	(B)	Gastropoda
	(C)	Cephalopoda
	(D)	Pelecypoda
129.	Excre	tion is performed by in flatworms
	(A)	Protonephridia
	(B)	Flame cells
	(C)	Green cells
	(D)	Malpighian tubules
130.	Phylu	m Annelida is NOT characterised by
	(A)	Segmentation
	(B)	Closed circulatory system
	(C)	Pseudocoelom
	(D)	Ventral nerve cord
131.	Prawi	ns and butterflies belong to the same phylum because of the presence of
	(A)	Bilateral symmetry
	(B)	Jointed legs
	(C)	Antennae
	(D)	Segmented body

132.	Whic	h is not an example of one sided symbiotic relationship?
	(A) (B) (C) (D)	Cattle egret and cattle A hermit crab and an empty seashells A spider on a tree Tapeworm in host's stomach
	(D)	Tupe worm in nost 3 stomach
133.		notochord is a structure in vertebrate embryos that lies under the, and is flanked by
	(A) (B) (C) (D)	Mesodermal, neural tube, somites Endodermal, mesoderm, the gut Ectodermal, neural tube, mesoderm Mesodermal, ectoderm, endoderm
134.	Centr	um, pre and post-zygapophysis and transverse process are parts of
	(A) (B) (C) (D)	Skull of frog Vertebrae of frog Sternum of frog Pectoral girdle of frog
135.	Petro	myzon is a connecting link between
	(A) (B) (C) (D)	1
136.	Ances	stors of Cyclostomes are
	(A) (B) (C)	Myxinoides Arthropods Ostracoderms
	(D)	Urochordates
137.	Spina	l deformities in farmed fish occur due to the deficiency of
	(A) (B) (C) (D)	Vitamin A Vitamin C Vitamin B Vitamin D

138.	Which	h of the following is NOT a micronutrient?
	(A)	Mn
	(B)	Cu
	(C)	Mg
	(D)	Bo
	(D)	
139.		nethod of rearing Daphnia in a culture medium made up of soil, manure and
	water	is known as
	(4)	Autotrophia
	(A)	±
	(B)	Detrital Vania
	(C)	Xenic Avenie
	(D)	Axenic
140.	In Ind	in the peak breeding season of common corn is
140.	III IIIG	lia, the peak breeding season of common carp is
	(A)	Summer
	(B)	Winter
	(C)	Monsoon
	(D)	None of the above
	(D)	Trone of the doore
141.	Free s	swimming larvae of feed on mucous of their parents
	(A)	Angel
	(B)	Severum
	(C)	Goldfish
	(D)	Discus
142.	Adult	s of Lates calcarifer migrate towards for spawning
	(A)	River
	(A) (B)	Estuary
	(C)	Sea
	(D)	Origin of river
	(D)	Origin of fiver
A		
143.	Paddl	e wheel aerator is an example of type of aerator
	(A)	Diffuser
	(B)	Gravity
	(C)	Surface
	(D)	Turbine
	(-)	

(A) India(B) China(C) Thailand(D) Taiwan
(C) Thailand
(D) Taiwan
145. Aphids-small, sap-sucking insects - show
(A) Ovipary
(B) Vivipary
(C) Paedogenesis
(D) Parthenogenesis
146. Which of the following insects is an efficient pollinator?
(A) Apis cerana
(B) Syrphus sp.
(C) Bumble bee
(D) Hawk moth
147. Which of the following pests is believed to be migrated from India?
(A) Rhizopertha dominica
(B) Callosobrochus chinensis
(C) Tribolium castaneum
(D) Sitophilus oryzae
140 Wing in the lateral standard of
148. Wing is the lateral extension of
(A) Integument
(B) Cuticle
(C) Basement membrane

(D) Epidermis

(A) Stored grain pests(B) Groundnut leaf miner

(C) Coffee berry borer(D) Mosquito and flies

149. Wota trap is used for

Pollination by beetles is known as 150.

- (A) Melittophily(B) Myophily(C) Cantharophily(D) Myrmecophily



FINAL ANSWER KEY									
Subject Name: ZOOLOGY									
SI No.	Key	SI No.	Key	SI No.	Key	SI No.	Key	SI No.	Key
1	D	31	С	61	D	91	С	121	A
2	D	32	C	62	A	92	В	122	В
3	A	33	C	63	B	93	D	123	D
4	С	34	A	64	C	94	A	124	В
5	D	35	С	65	C	95	В	125	D
<u>6</u> 7	D	36 37	D	66	A	96 97	C	126 127	A C
8	B D	38	A C	67 68	A C	98	B	127	C
9	A	39	В	69	В	99	D	129	В
10	В	40	C	70	В	100	В	130	C
11	A	41	В	71	В	101	D	131	В
	7.1								
12	Α	42	В	72	A	102	D	132	D
13	С	43	C	73	A	103	В	133	A
14	В	44	C	74	В	104	В	134	В
15	С	45	A	75	A	105	D	135	В
16	A	46	A	76	D	106	A	136	С
17	D	47	С	77	D	107	A	137	В
18	A	48	C	78	В	108	A	138	С
19	A	49	C	79	C	109	A	139	В
20	D	50	A	80	В	110	С	140	В
21	В	51	D	81	D	111	С	141	D
22	A	52	A	82	D	112	A	142	С
23	D	53	В	83	A	113	A	143	С
24	С	54	D	84	В	114	A	144	В
25	В	55	D	85	A	115	D	145	В
26	A	56	В	86	В	116	С	146	С
27	A	57	D	87	С	117	В	147	D
28	В	58	A	88	A	118	A	148	A
29	D	59	C	89	D	119	С	149	В
30	D	60	В	90	С	120	В	150	C