ZOOLOGY

1.	Pseud	lopodia is a organ in protozoans
	(A) (B)	Respiratory Locomotory
	(C)	Reproductive
	(D)	Excretory
2.	Cora	I reefs are formed by
	(A)	Molluscs
	(B)	Coelenterates
	(C)	Protozoans
	(D)	Echinoderms
3.	Free l	iving Platyhelminthes forms belong to the class
	(A)	Cestoda
	(B)	Trematoda
	(C)	Turbellaria
	(D)	Nematoda
	3.6.1	
4.	Malai	rial fever in man is caused by
	(A)	Mosquito
	(B)	Virus
	(C)	Bacterium
	(D)	Plasmodium sp.
	•	
5.	Cup s	haped excretory organs with a tuft of flagella found in flatworms are called
6	(A)	Glandular cells
	(B)	Zooids
	(C)	Flame Cells
	(D)	Ocelli
6.	Whic	h of the following is a larva of nematodes?
	(A)	Caterpiller
	(B)	Pilidium
	(C)	Biplilaneria
	(D)	Zoea

7.	Pick t	the correct group which has the largest living animals
	(A)	Fishes
	(B)	Birds
	(C)	Reptiles
	(D)	Mammals
8.	Sumn	ner sleep of frog is known as
	(A)	Aestivation
	(B)	Hibernation
	(C)	Paedogenesis
	(D)	Neoteny
9.	Conn	ecting link between reptiles and birds is
	(A)	Sphenodon
	(B)	Frog
	(C)	Archaeopteryx
	(D)	Protopterus
10.	Whic	h among the following are the electroreceptors in Shark?
	(4)	District Cooler
	(A) (B)	Placoid Scales Ampullae of Lorenzini
	(C)	Opidthonepheron
	(D)	None of the above
	(2)	
11.	The p	resence of Pyloric Ceca is a unique feature of
	(A)	Teleosts
	(B)	Shark
	(C)	Jawless Fish
	(D)	All Fishes
12.	Thon	process by which developing embryos receive nutrition from mother is named as
12.	The p	nocess by which developing embryos receive nutrition from mother is named as
	(A)	Lecithotrophy
	(B)	Anesotrophy
	(C)	Placentotrophy
	(D)	Autotrophy

	(A) (B) (C) (D)	Lymphocytes Monocytes Leucocytes Melanocytes
14.	Whic	h one of the following cell organelles does not have a membrane system?
	(A) (B) (C) (D)	Mitochondrion Golgi apparatus Nucleus Ribosome
15.	Centr	omere is present in the
	(A) (B) (C) (D)	Mitochondria Endoplasmic Reticulum Chromosome Glyoxysome
16.		ransport factors that help in the movement of molecules through the nuclear are known as Nucleopherins Nucleoporins Karyopherins Karyoporins
17.	(A) (B) (C) (D)	on ribosomes present in the cytoplasm as well as in mitochondria on ribosomes present in the nucleolus as well as in the cytoplasm only on ribosomes connected to the nuclear envelope and endoplasmic reticulum only on the ribosomes present in the cytosol
18.		h of the following enzymes remove supercoiling in replicating DNA ahead of plication fork?
	(A) (B) (C) (D)	DNA polymerases Helicases Primases Topoisomerases

13.

Pigmentation of skin is due to

19.	The information which is represented by a signal is detected by a specific receptor and converted to a cellular response; this conversion is called	
	 (A) Signal amplification (B) Signal transversion (C) Signal transduction (D) Signal integration 	
20.	Night blindness is caused due to the deficiency of	
	(A) Vitamin E (B) Vitamin A (C) Vitamin B (D) Vitamin K	
21.	Identify the protein present in hair, nails, and horns of animals	
	(A) Keratin (B) Globulin (C) Chitin (D) Histone	
22.	Which among the following is an excretory product of fishes?	
	(A) Urea (B) Ammonia (C) Hippuric Acid (D) Uric Acid	
23.	Central Nervous System is composed of	
	 (A) Brain and Heart (B) Brain and Spinal Cord (C) Spinal Cord and Lungs (D) Brain and Lungs 	
24.	Prothrombin which helps in clotting of blood is released by	
	(A) Lymphocytes(B) Blood Platelets(C) Monocytes(D) Erythrocytes	

25.	During Translation, which one of the following amino acid is first added to the f ribosome?	P site
	(A) Isoleucine(B) Cysteine(C) Tryptophan(D) Methionine	
26.	Dengue fever is spread by	
	(A) Anopheles mosquito	
	(B) Culex mosquito	
	(C) Aedes mosquito	
	(D) None of the above	•
27		
27.	Which one of the following is the respiratory organ in insects?	
	(A) Lungs	
	(B) Trachea	
	(C) Gills	
	(D) Skin	
28.	Plague is spread by	
	(A) B	
	(A) Dogs	
	(B) Pigs (C) Rats	
	(D) Mosquitoes	
20		
29.	The process of transformation of a spermatid into a spermatozoan is called	
	(A) Spermiogenesis	
	(B) Spermateleogenesis	
	(C) Spermatogenesis	
4	(D) Sperm maturation	
30.	The establishment of national parks and sanctuaries come under	
	(A) in situ conservation of biodiversity	
	(B) ex situ conservation of biodiversity	
	(C) Natural Development Plan of Biodiversity	
	(D) None of the above	

31.	wnic	n one of the following microbes is a water pollution indicator?
	(A)	Escherichia coli
	(B)	Vibrio cholerae
	, ,	Pseudomonas sp.
	(D)	Bacillus sp.
32.	In per	rsons addicted to alcohol, the liver gets damaged because it
	(A)	is over stimulated to secrete more bile
	(B)	accumulates excess of fats
	(C)	has to detoxify the alcohol
	(D)	stores excess of glycogen
33.	Whio	h part/galls of the hady is named as "Palice Guard"?
33.	VV IIIC	h part/cells of the body is named as "Police Guard"?
	(A)	Tonsils
	(B)	Skin
	(C)	Liver
	(D)	Leucocytes
34.	Whic	h of the following is the primary host of liver fluke?
	(A)	Snail
	(B)	Cattle
	(C)	Pig
	(D)	Sheep
35.	Coeld	oblastula is present in
55.	00010	o motoria io present in
	(A)	Labeo
	(B)	Snakes
	(C)	Starfish
	(D)	Unio
36.	Whic	h of the following is of mesodermal origin?
50.	Ville	if of the following to of incoodernial origin;

(A) Brain(B) Heart

(C) Urinary Bladar(D) Middle ear

37.	Cleav	age of fertilized egg cells was first explained by
	(A)	Spallanzani
	(B)	Aristotle
	(C)	Hearwig
	(D)	Harvey
38.	'The (Organizer concept' was proposed by
	(A)	Axelorod
	. ,	Landsteiner
	(C)	Spemann
	(D)	Pavlov
39.	Whic	h of the following statements matches with parthenogenesis?
	(A)	Death of sperm before fertilization
	(B)	Cleavage of egg without fertilization
		Mixing of sperm and egg in artificial embryonic medium
	(D)	Fertilization of egg by sperm inside the body
40.	Identi	fy the animal in which breeding occurs in the mouth
	(A)	Sword Tail
	(B)	Platy
	(C)	Cichlids
	(D)	Cowbird
41.	Const	ruction of web by spider is an example for behaviour
	(A)	Acquired
	(B)	Innate
	(C)	Imprinting All of the above
	(D)	All of the above
42.	The h	ormone that regulates 'Dominance Heirarchy' is
	(A)	Aldosterone
	(B)	Testosterone
	(C)	Estrogen
	(D)	Progestrone

43.	43. Acoustic marking of territory is done by	
	(A)	Frog
	(B)	Seals
	(C)	Humming birds
	(D)	Both (A) and (B)
	` ′	
44.	Chem	nical communication between the members of the same species is effected by
	(A)	Alomone
	(B)	Kiramone
	(C)	Pheromone
	(D)	Hormone
4.5	0	
45.	Organ	nism that helps to reduce ammonia load in a bio-fertilizer is
	(A)	Aeromonas
	(B)	Nitrosomonas
	` ′	Bacillus
	(D)	Rhizobium
	(D)	Title
46.	A nau	aplius is
	(A)	Singular red eye found on copepods
	(B)	A specialized eating appendage
	(C)	The larval form of a copepod
	(D)	A type of parasitic copepod
47.	Paras	itic castration in crabs is caused by
.,.	1 aras	the custom in cruss is caused by
	(A)	Trichodesmium
	(B)	Fusarium
	(C)	Sacculina
	(D)	Argulus
40	****	
48.	Whic	h one of the following is the source of Natural pearl?
	(A)	Bivalve
	(B)	Prawn
	(C)	Crayfish
	(D)	Fish

49.	An are	ea where freshwater and saltwater meet is known as
	(A)	Ocean
	(B)	Brackish Water
	(C)	River
	` ′	Lagoon
	` /	
50.	Vitam	ins often act as for biological reactions.
	(A)	apoenzymes
	(B)	catalysts
	(C)	coenzymes
	(D)	holoenzymes
51.	Death	receptors belong to
	(The state of the s
	(A)	Tumor necrosis factor (TNF) receptor
	(B)	Tumor growth factor (TGF) receptor
	(C)	Epidermal Growth factor (EGF) receptor
	(D)	Vascular Endothelial growth factor (VGF)
52.	Which	h hormone is measured to detect pregnancy?
0	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	in memory to memory to describe the second s
	(A)	Testosterone
	(B)	Chorionic Gonadotropin
	(C)	Progesterone
	(D)	Estrogen
50	NT 1 1	D: 0 1 1 1 1 2010 1 1 1 1 1
53.	Nobel	Prize for physiology/medicine in 2018 was awarded for the work on cancer
	(A)	Chemotherapy
	(B)	Immunotherapy
	(C)	Radio therapy
	(D)	DNA therapy
		17
54.	Hormo	ones act through
	(1)	Autocrine signaling
	(A) (B)	Autocrine signaling Paracrine signaling
	(D)	Endocrine signaling
	(C) (D)	All of the above
	(D)	Ani of the above

55.	Which of the following is the secondary messenger in animal cells?	
	(A)	ATP
	(B)	AMP
	(C)	cATP
	(D)	cAMP
	()	
56.	Whic	h of the following is a causative factor for leukaemia in Mice and Human?
	(A)	Bacteria
	(B)	Fungi
	(C)	Nematodes
	(D)	Viruses
57.	Thora	constitue meterial of Paus sersome virus is
37.	The g	genetic material of Rous sarcoma virus is
	(A)	DNA
	(B)	Extra chromosomal DNA
	(C)	RNA
	(D)	Both (A) and (B)
58.	Idonti	ify the most common cancer among men
36.	identi	my the most common cancer among men
	(A)	Lung cancer
	(B)	Breast cancer
	(C)	Brain cancer
	(D)	Testicular cancer
50	66T21 - 1-	
59.	FISH	out" the scientist who proposed the 'ecological niche' concept
	(A)	Odum
	(B)	Brown
	(C)	Beaude
	(D)	Hooke
60	A aa1	any of constinuity identical calls derived from a single procession call is known
60.	40	ony of genetically identical cells derived from a single progenitor cell is known
	as	
	(A)	Recombination
	(B)	Cell division
	(C)	Cloning
	(D)	Cell regeneration

61.	The p	professional phagocytosis is very common in
	(A)	RBC
	(B)	WBC
	(C) (D)	Platelets None of the above
	(D)	Trong of the above
62.		nicrovilli of small intestine participate in the uptake of oral suspension drugs
	throug	gh process
	(A)	Phagocytosis
	(B)	Pinocytosis
	(C) (D)	Drug mediated endocytosis All of the above
	(D)	All of the above
63.	The h	pest source of renewable energy is
03.	THE	
	(A)	Cattle
	(B) (C)	Petroleum Coal
	(D)	Trees
64.	Remo	oval of top fertile soil by air or water is called
	(A)	Siltation
	(B)	Soil erosion
	(C)	Weathering of Soil
	(D)	Leaching
65.	Chipk	so movement is related to
	(A)	conservation of natural resources
	(B)	tree/forest conservation
	(C) (D)	plant breeding tiger conservation
	(D)	tiger conservation
66.	The n	nost stable ecosystem is
	(A)	Ocean
	(B)	Forest
	(C) (D)	Desert Mountain
	(D)	Mountain

	(A)	Lithosphere
	(B)	Biosphere
	(C)	Hydrosphere
	(D)	Atmosphere
68.	Who	proposed the Biogenetic Law?
	(A)	E. Haeckel
	(B)	Charles Darwin
	(C)	Karl von Bear
	(D)	Lamarck
69.	The F	Head Quarters of National Institute of Oceanography (NIO) is at
	(A)	Mumbai
	(B)	Goa
	(C)	Lucknow
	(D)	Chennai
70.	In hy	bridoma technology, B-Cell is fused with
		V. 60 G II
	(A)	Kupffer Cell
	(B)	Myeloma Cell
	(C)	T-Cell
	(D)	Macrophage Cell
71.	Total	number of amine eaids present in human insulin is
/1.	Total	number of amino acids present in human insulin is
	(A)	51
	(B)	60
	(C)	40
	(D)	55
72.	The v	vorld's first successful Vaccine was invented by
		· · · · · · · · · · · · · · · · · · ·
	(A)	Robert Koch
	(B)	Edward Jenner
	(C)	John Walker
	(D)	Kanyas
	•	

The sphere of living matter along with water, soil and air on the surface of the earth is

67.

73.	The fi	irst cloned mammal is a
	(A)	Dog
	(B)	Cow
	(C)	Sheep
	(D)	Tiger
74.	How	much coding sequence is present in human genome?
	(A)	30%
	(B)	3%
	(C)	60%
	(D)	90%
75.		chandran plot is related to
	(A)	Carbohydrate
	(B)	Protein
	(C)	Lipid
	(D)	Minerals
76.	Which	h of the following techniques is useful for isolating intact, functionally active
		hondria?
	(W II.CC 41
	(A)	· · · · · · · · · · · · · · · · · · ·
	(B)	Differential centrifugation Electron microscopy
	(D)	X-ray crystallography
	(D)	A lay crystallography
77.	Cells	that synthesise have abundant smooth endoplasmic reticulum.
	()	
	-000000000	proteoglycans
	(B)	
	(C) (D)	•
	(D)	grycoproteins
78.	Centr	osome, the main microtubule organizing centre of the cell, is duplicated during
	(
		interphase
	(B)	•
	(C) (D)	gap phase synthetic phase
	(D)	synthetic phase

79.	Whic	h of the following statements is TRUE of neurohypophysis?
	(A) (B)	It is a part of the hypothalamus and functions to secrete neurohormones It secretes two hormones, arginine vasopressin and oxytocin
	(C)	It is an exocrine tissue and doesn't secrete any hormone
	(D)	It acts as a neurohemal organ and stores hormones secreted by the hypothalamus
80.	Prosta	aglandins are the derivatives of
	(A)	membrane phospholipids
	(B)	membrane proteins
	(C)	diacyl glycerol
0.1	(D)	inositol triphosphate
81.	In wh	ich of the following mammalian cells are peroxisomes abundant?
	(A)	Neurons
	(B)	Hepatocytes
	(C)	Skeletal muscles
	(D)	Chondrocytes
82.	Eryth	ropoietin, which is required for the production of RBCs is secreted from
	(A)	liver
	(B)	kidney
	(C)	pancreas
	(D)	bone
	` ,	
83.	Whic	h of the following components of the plasma membrane determines its fluidity?
	(A)	Sphingolipids
	(B)	Cholesterol
	(C)	
	(D)	Glycolipids
84.	Mam	mary tissue is an example of
	(A)	simple tubular gland
	(B)	compound alveolar gland
	(C)	branched tubular gland
	(D)	compound coiled, tubular gland

85.	Which of the following cells are responsible for maintaining acidic conditions in the stomach?	
	(A)	Goblet cells
	(B)	Parietal cells
	(C)	Chief cells
	(D)	Enteroendocrine cells
86.	In hui	mans, which region of the adrenal gland secretes aldosterone?
	(A)	Zona glomerulosa
	(B)	Zona fasciculate
	(C)	Zona reticularis
	(D)	Medulla
87.	Whic	h of the following stages of spermatogenesis will have maximum DNA content?
07.	VV IIIC	if of the following stages of spermatogenesis will have maximum D17/1 content:
	(A)	Primary spermatocytes
	(B)	Secondary spermatocytes
	(C)	Spermatids
	(D)	Spermatozoa
88.	Notochord is a structure in vertebrate embryos that lies under the	
		and is flanked by
	(A)	ectodermal, neural tube, somites
	(B)	meosdermal, neural tube, somites
	(C)	endodermal, neural tube, somites
	(D)	meosdermal, ectoderm, endoderm
89.	Whic	h of the following organs synthesizes calcitriol, the active form of vitamin D?
	(A)	Skin
A	(B)	Kidneys
	(C)	Liver
	(D)	Thyroid
	(2)	111,1014
90.	The p	process in which neighbouring cells influence the development of each other,
	either	by direct contact or by secreting chemical signals is called
	(A)	blastulation
	(B)	induction
	(C)	stimulation
	(D)	gastrulation
	•	

91.	What	is the primary function of cortical reaction or egg activation during fertilization?
	(A)	To block polyspermy
	(B)	To secrete hyaluronidase
	(C)	To form a zygote nucleus
	(D)	To change the pH of the egg cytoplasm
92.	Which	h of the following is a measure of dispersion that is based on the concept of a
	deviat	tion from the mean?
	(A)	Range
	(B)	Interquartile deviation
	(C) (D)	Semi Interquartile range Standard deviation
	(D)	Standard deviation
93.	Which	h of the following is an example of morphallaxis?
	(A)	Regeneration of limb in a newt
	(B)	Regeneration of the whole body of hydra
	(C)	
	(D)	Regeneration of jaws in a salamander
94.	Which of the following evolutionary periods has witnessed a major mass extinction of	
	life, p	articularly marine life?
	(A)	Carboniferious period of the Paleozoic era
	(B)	Permian period of the Paleozoic era
	(C)	Cretaceous period of the Mesozoic era
	(D)	Jurassic period of the Mesozoic era
95.		ssociation between a dependent variable and an independent variable can be
	studie	ed by using
	(A)	student t-test
	(B)	chi-square test
	(C)	correlation coefficient test
	(D)	Mann-Whitney test
96.	A con	npound that absorbs wavelength and emits wavelength
	of ligh	ht can exhibit fluorescence.
	(A)	shorter, shorter
	(B)	shorter, longer
	(C)	longer, shorter
	(D)	longer, longer

97.	Anim	als belonging to which of the following taxa exhibit spiral cleavage?
	(A) (B)	Amphibians Mammals
	(C) (D)	Annelids Echinoderms
98.		t-helices and β-sheets, which are three-dimensional arrangements of local ents of protein are referred to as
	(A)	quaternary structure
	(B)	tertiary structure
	(C)	secondary structure
	(D)	primary structure
99.	Whic	h of the following phenomena is responsible for the evolution of different bill
	sizes,	shapes, colouration and body size in Darwin's finches that were adapted to
	differ	ent Galapagos Islands?
	(A)	Evolutionary convergence
	(B)	Evolutionary divergence
	(C)	Adaptive radiation
	(D)	Evolutionary parallelism
100.	A geo	ographically variable species often divided into many subspecies is referred to as
	(A)	sibling species
	(B)	monotypic species
	(C)	paratypic species polytypic species
	(D)	polytypie species
101		
101.	Hone	ybees carry pollen back to the colonies in the pollen basket situated on their
	(A)	body
	(B)	front legs
	(C)	middle legs
	(D)	hind legs
102.	A trai	nsient zone between two biomes is called
	(A)	ecotype
	(B)	ecotone
	(C)	ecocline
	(D)	ecophene

103.	Which	h of the following is not likely to be dependent on adult body size?
	(A)	Area of habitat required to support reproductive activity
	(B)	Adaptability
	(C)	Generation time Number of reproductive events
	(D)	Number of reproductive events
104.	Catec	holamines and neurotransmitters are metabolized in the liver by
	and	
	(A)	deamination and decarboxylation
	(B)	deamination and amidation
	(C)	ortho-methylation and carboxylation
	(D)	ortho-methylation and oxidative deamination
105	TPI	
105.		ub layer of earth consisting of its intensely hot core, a thick mantle composed
	mosti	y of rock and a thin outer crust is
	(A)	Hydrosphere
	(B)	Troposphere
	(C)	Stratosphere
	(D)	Geosphere
106.	What	is the role of carbohydrate moieties in the plasma membrane?
	(A)	Cell adhesion
	(A) (B)	Cell- cell recognition
	(C)	Assisting transport across the membrane
	(D)	Cell storage reserve
107.	Which	h of the following types of interactions stabilizes the plasma membrane?
	(A)	Hydrophobic interactions
	(B)	Hydrophilic interactions
A	(C)	Ionic bonds
	(D)	Covalent bonds
108.	Plasm	nodesmata of plant cells are functionally equivalent to of animal
	cells.	
	(A)	gap junctions
	(B)	tight junctions
	(C)	adherence junctions
	(D)	desmosomes

109.		is a zoonotic parasitic disease caused by tapeworms.
	(A)	Fascioliasis
	(B)	
	(C)	
	(D)	
110.	Whic	h of the following are not found in plant cells?
	(A)	Mitochondria
	(B)	Glyoxisomes
	(C)	Centrosomes
	(D)	Golgi apparatus
111	т 1'	
111.	ın a 11	ght microscope, total magnification is obtained by
	(A)	magnifying power of the objective lens
	(B)	magnifying power of the eyepiece
	(C)	
	(D)	magnifying power of both objective lens and eyepiece
	(-)	
112.	Which	h of the following features distinguishes hemichordates from chordates?
	(A)	Pharyngeal gill slits
	(A) (B)	Nervous system
	(C)	
	(D)	Three germ layers
	(D)	Timee germ layers
113.	Livin	g fossils are the
	(A)	organisms which have become fossils recently
	(B)	organisms that have become fossils while living
	(C)	
	#	evolution
	(D)	
		evolution
114.	Whic	h is the correct hierarchical sequence in taxonomy?
	(A)	Kingdom, Phylum, Genus, Species, Class
	(B)	Kingdom, Phylum, Class, Genus, Species
	(C)	
	(D)	·
	(2)	~r,,,,

115.	A gro	oup of taxa that includes all descendant of a single ancestor is called
	(1)	mananhylatia
	(A) (B)	monophyletic paraphyletic
	(C)	polyphyletic
	(C) (D)	symphyletic
	(D)	Symphytetic
116.	Silve	rfish belongs to the phyla
	(A)	Pisces
	(B)	Arthropoda
	(C)	Mollusca
	(D)	Echinodermata
117.	What	is the status of Red Panda as per the IUCN Red data book?
	(A)	Vulnerable
	(B)	Endangered
	(C)	Critically endangered
	(D)	Extinct in the wild
118.	Whic	h of the following communities is the most productive in the biosphere?
	(A)	Temperate forests
	(B)	Tropical forests
	(C)	Savannas
	(D)	Wetlands
119.	Protei	ins can be visualized directly after electrophoresis in gels by
117.	11000	and can be provided in gold by
	(A)	microscope
	(B)	exposing it to UV light
	(C)	
	(D)	exposing it to X-rays
1		
120.	Size	Exclusion Chromatography (SEC) is the separation of bio-molecule mixtures
	based	
	(4)	alegana
	(A)	charge effective molecular radius
	(B) (C)	
	(C) (D)	colour of the compound
	(D)	colour of the compound

	(A) (B) (C) (D)	conductivity meter
122.	The n	naximum volume of air contained in the lungs as a result of a forced inhalation is
	(A) (B) (C) (D)	vital capacity ventilation rate
123.		is/are primary criterion for classifying insects.
	(A) (B) (C) (D)	Wings Thorax Legs Antennae
124.	Whic	h of the following sets is of flightless birds?
	(A) (B) (C) (D)	Penguin, Peacock, Fowl, Rhea, Kiwi, Ostrich Rhea, Cassowary, Moa, Emu, Kiwi, Ostrich Albatross, Kiwi, Falcon, Emu, Ostrich Albatross, Hummingbird, Falcon, Hawk, Ostrich
125.	Whic	h of the following parasites sucks and ingests blood?
<	(A) (B) (C) (D)	Ancylostoma duodenale Enterobius vermicularis Ascaris lumbricoides Trichuris trichiura
126.		h of the following is the weakest of all non-covalent interactions between
	(A) (B) (C) (D)	Hydrogen bond Van der Waals force Hydrophobic interaction Ionic interaction

The amount of light absorbed by a sample is measured using

121.

127.	The presence of 3 copies of chromosome number 18 in human somatic cells results		
	(A) Down's syndrome		
	(B) Patau syndrome		
	(C) Turner syndrome		
	(D) Edward syndrome		

- 128. What is the composition of a nucleosome?
 - (A) DNA, histone core protein, histone H1
 - (B) DNA, histone core protein
 - (C) RNA, histone core protein
 - (D) RNA, histone core protein, histone H1
- 129. Which of the following characteristics is **not** true of plasmid DNA?
 - (A) A plasmid is a circular piece of DNA
 - (B) Plasmid has a wide molecular weight
 - (C) Every cell has only one copy of plasmid DNA
 - (D) Plasmid can be transferred from cell to cell
- 130. An essential amino acid is the one that
 - (A) is readily available in the body
 - (B) the body can synthesize
 - (C) is essentially easy to synthesize
 - (D) the body cannot synthesize
- 131. A Punnett square is used to determine
 - (A) the actual outcome of a cross
 - (B) the probable outcome of a cross
 - (C) result of segregation
 - (D) result of meiosis-I
- 132. The pH value at which the net charge on the molecule is zero is called
 - (A) equilibrium point
 - (B) buffer point
 - (C) isoelectric point
 - (D) end point

133.	33. Which of the following polysaccharides is the most important structural subsinsect and crustacean shells?	
	(A)	Starch
	(B)	
	(C)	
		Murein
134.	The e	pithelia that lines the excretory passage of the urinary tract is
	(A)	Squamous epithelium
	(B)	1
	(C)	Transitional epithelium
	(D)	Pseudostratified squamous epithelium
135.	Why	is urea used during polyacrylamide gel electrophoresis?
	(A)	To prevent DNA degradation
	(B)	
	(C)	
	(D)	To make DNA molecules positively charged
136.	Which	h part of the brain is responsible for balancing and posture of the body?
	(A)	Cerebrum
	(A)	Cerebellum
	, ,	Medulla oblongata
	(D)	Spinal cord
	()	
137.	Bio-fu	uels are being increasingly used as these are
	(A)	more affordable
		water-efficient
A	(C)	
		having more energy content
138.	The s	ponges are believed to be primitive metazoan whose organization is at the
	(A)	tissue level
	(B)	
	(C)	
	(D)	triploblastic level

139.	In evolutionary terms, two organisms that are more closely related are	
	(A)	more similar in their habitats
	(B)	less similar in their DNA sequences
	(C)	those that recently shared a common ancestry
	(D)	similar in their size
140.	Whic	h of the following binds to calcium during excitation-contraction coupling?
	(A)	Actin
	(B)	Myosin
	(C)	Tropomyosin
	(D)	Troponin
141.	A sub	ostance B is transported into the cell with the help of membrane proteins only. It
141.		nly travel with the concentration gradient. This is called
	can of	my traver with the concentration gradient. This is called
	(A)	diffusion
	(B)	facilitated diffusion
	(C)	osmosis
	(D)	bulk transport
142.		cannot be detected in the developing embryo by amniocentesis.
	(A)	
	(B)	
	(C)	Sex of the foetus
	(D)	Down's syndrome
143.	Whic	h of the following silkworm diseases is caused by a virus?
	(A)	Infectious flacherie
	(B)	Muscardine Pebrine
	(C) (D)	Grasserie
	(D)	Glasserie
144.	Which	h of the following is the most common symptom of visceral leishmaniasis?
	(A)	Swollen arms and legs without any skin ulcers
	(B)	Swollen face and lips with red skin ulcers
	(C)	Swollen spleen and liver with black skin ulcers
	(D)	Swollen spleen and kidneys with brown skin ulcers

- 145. Polymerase chain reaction requires
 - (A) thermally stable RNA polymerase
 - (B) thermally stable DNA polymerase
 - (C) thermally unstable RNA polymerase
 - (D) thermally unstable DNA polymerase
- 146. Animals belonging to which of the following phyla exhibit bilateral symmetry during the larval stage and radial symmetry during the adult stage?
 - (A) Coelenterata
 - (B) Nematoda
 - (C) Echinodermata
 - (D) Mollusca
- 147. Which of the following groups of animals taxa exhibit bilateral symmetry in their body organization?
 - (A) Only Annelids
 - (B) Only Arthropods
 - (C) Only Vertebrates
 - (D) Annelids, Arthropods and Vertebrates
- 148. Which of the following disease-causing protozoan enters the body by the consumption of under-cooked meat?
 - (A) Entamoeba histolytica
 - (B) Plasmodium vivax
 - (C) Toxoplasma gondii
 - (D) Giardia lamblia
- 149. Which of the following nematodes is monogenetic parasite?
 - (A) Ascaris lumbricoides
 - (B) Wuchereria bancrofti
 - (C) Trichinella spiralis
 - (D) Drancunculus medinensis
- 150. Which of the mitochondrial enzymes is responsible for destroying H_2O_2 and preventing the formation of ROS?
 - (A) Hydroxylase
 - (B) Carboxylase
 - (C) Catalase
 - (D) Superoxide dismutase

ANSWER KEY Subject Name: 615 ZOOLOGY									
1	В	31	A	61	В	91	A	121	С
2	В	32	В	62	В	92	D	122	D
3	C	33	A	63	D	93	В	123	C
4	D	34	D	64	В	94	В	124	В
5	C	35	C	65	В	95	C	125	A
6	В	36	В	66	A	96	В	126	В
7	D	37	A	67	В	97	C	127	D
8	A	38	C	68	A	98	C	128	A
9	C	39	В	69	В	99	C	129	C
10	В	40	C	70	В	100	D	130	D
11	A	41	В	71	A	101	D	131	В
12	С	42	В	72	В	102	В	132	C
13	D	43	D	73	C	103	В	133	В
14	D	44	C	74	В	104	D	134	C
15	С	45	В	75	В	105	D	135	C
16	В	46	C	76	В	106	В	136	В
17	C	47	C	77	В	107	A	137	C
18	D	48	A	78	D	108	A	138	В
19	C	49	В	79	D	109	C	139	C
20	В	50	C	80	A	110	C	140	D
21	A	51	Α	81	В	111	D	141	В
22	В	52	В	82	В	112	С	142	A
23	В	53	В	83	В	113	С	143	A
24	В	54	C	84	В	114	В	144	С
25	D	55	D	85	С	115	A	145	В
26	С	56	D	86	A	116	В	146	С
27	В	57	С	87	A	117	В	147	D
28	С	58	A	88	В	118	В	148	С
29	С	59	A	89	В	119	C	149	A
30	A	60	C	90	В	120	В	150	С