Shri Swami Vivekanand Shikshan Sanstha, Kolhapur's



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B. Sc-Part (Semester –I) CBCS **Examination- March/April 2022 Subject- Zoology (Paper No-II,DSC-16A)**

Paper tittle-Animal Physiology

Question Bank

Q.1 Multiple choice question	1
1) Main function of the large in	testine is
a) Absorption	b) absorption of food
c) Digestion of fats	d) storage of food
2) Anaerobic respiration occurs	in
a) Taenia	b) Fasciola
c) Ascaris	d) none of these
3) Larynx is comprised ofca	artilages
a) 5 b) 9 c) 10	d) 6
4) In which part of nephron, abs	sorption of filtrate is maximum?
a) Distal convoluted tubule	b) Proximal convoluted tubule
c) Glomerulus	d) Henles loop
5) Threshold stimulus increasesions.	s permeability of plasma membrane for
a) Na ⁺ b) K ⁺ c) Cl ⁻	d) Ca ⁺⁺
6) Lipochrome granules are	colour.
a) Yellow b) Red	c) Green c) Blue

7) Nissl's granules are absent in -----

a) Axon b) Deno	dron c) Cytor	n d) Both a	and b	
8) The potential n	naintained ac	cross the neu	ron me	embrane during the resting
state is				
a)+70 mV b) -7	0mV c)	0.5mV d) -3	30 mV	
9) Repolarisation of	of neuron occ	eurs due to		
a) Electrical force	b) activation	on of Na+ K-	+ pump	
c) Concentration	gradient forc	e d) cl- io	ons	
10) Axon arises fro	om the part o	f nerve cell c	alled -	
a) Axon hillock	b) Lipochron	ne c) mela	anin	d) Dendron
11) Smooth musc	le occurs in-			
a) vein	b) artery	c) uterus		d) all of these
12) The cytoplasm	of a striated	muscle fibre	is tern	ned as
a) Sacroplasm	b) metamere	e c) sar	comere	e d) neuromere
13) Titin connects	line	of skeleton	muscle	
a) Z disc	b) S1	c) S2	d) H	zone
14) Fascicles are n	nade of		-muscle	e fibres.
a) 100 – 1000	b) 50 – 100	c) 150	00 - 20	000 d) 25-75
15) Impulse travels	s through ner	eve fibre in a	single	direction because of
a) synapse	b) axon	c) Dendron		d) Nissl's granules
16) In human body	there are ab	out		-known skeleton muscle.
a) 650	b) 600	c) 635	d) 550)
17) give	es banded ap	pearance to the	he skel	etal muscle.
a) Sarcomere	b) Sar	rcoplasm		
c) Sarcosome	d) Sar	rcoplasmic re	eticulur	n
18) Actin is made	of	protein.		

a)) G-actin protein b) filamentous protein				
c)) Myosin protein d) non of these				
19)	19) The neuron cell body is made of micrometer.				
a)	5-10	b) 50-100	c) 3-10	00	d) 75-100
20)	In unipolar ne	uron there ar	e about	c cytopl	asmic process.
a)	2	b) 1	c) mar	ny	d) 3
21)	The dark band	in sarcomere	e is den	oted by	band
a)	A	b) I	c) Z	d) H	
22)	The digestion of	of starch star	ts in the	÷	
a)	Liver	b) Sto	mach	c) Intestine	d) Mouth
23)	The digestive e	enzyme prese	ent in sa	aliva is	
a)	Ptyalin	b) Amylase	c) Lipa	ase	d) Trypsin
24)	Proenzyme po	epsinogen is	activate	ed by	-
a)	a) Enterocrinin b) Gastrin				
c)	c) Enterokinase d)HCL				
25) Pancreatic juice contains					
a) "Trypsin, pepsin and amylase "					
b)"Pepsin, trypsin and maltase "					
c)"Trypsin, lipase and maltase "					
d) "Trypsin, chymotrypsin lipase and amylase"					
26) Main function of the large intestine is					
a) Absorption of water b) Absorption of food					
C	c) Digestion of fats d)Storage of stool				
27) Troponin has number of subunits					
a) Two b) Th	ree c) Foi	ur	d) Five	

28)"In mammals, surface of into	estine is increased due to presence of
a) Crypts of liberkuvin	b) Brunners glands
c) Villi	d) all of these
29) A process of exchange of dioxide produced by the cell	of oxygen from the atmosphere with carbon is called
a) Excretion b) Secretion	c) Oxidation d) Breathing
30) Are the primary site	es of exchange of gases.
a) RBCs b)Trachea c) Tis	sues d)Alveoli
31) During the inspiration the	diaphragm
a) Expands	b) Show no change
c) Contracts and flattens	d) Relaxes to become dome shaped
32) is the functional unit	of kidney.
a) Hilum b) Neurons c) Ne	ephrons d)Medulla
33) Correct sequence of urine for	ormation is
a) "Filtration, Reabsorptionb) "Secretion, Reabsorptionc) "Reabsorption, Secretiond) "Reabsorption, Filtration	n, Filtration " n, Filtration "
34) Ability of the kidneys dependent on	for the production of concentrated urine is
a) Active transport	b) Passive transport
c) Diffusion	d) Counter current mechanism
35) Water Reabsorption in the influence of	e DCT and Collecting duct is operated under
a) Aldesteron b) AD	OH c) Renin d) Angiotensin
36) Which of the following pa	rt of nephron is impermeable to water
a) PCTb) DCT	

c) Ascending limb of loop of Henled) Descending limb of loop of Henle				
37) Loop of Henle is surround	ed by capillaries is called			
a) Peritubular capillaries b)Vasa recta				
c) Both a and b	c) Both a and b d)None of the above			
38) The yellow colour of the u	rine is due to presence of			
a) Urochrome	b)Uric acid			
c) Cholesterol	d)Urea			
39) Nissls granules are absent	in			
a) Axon b) Dendron	c) Cyton d) Both a and b			
40) Repolarisation of neuron oc	curs due to Electrical force			
a) Activation of Na	b) K+ pump			
c) Concentration gradient forc	e d) Cl- ions			
41) Axon arises from the part of	f nerve cell called			
a) Axon hillock b) Lipochrome c)Melanin d)Dendron				
42) Smooth muscle occurs in				
a) Vein b) Artery c) Uterus d) All of these				
43) The cytoplasm of a striated muscle fibre is termed as				
a) Sacroplasm b) Metamere c) Sarcomere d) Neuromere				
44) Impulse travels through nerve fibre in a single direction because of				
a)Synapse b)Axon c)Dendron d)Nissls granules				
45) In human body there are about known skeleton muscle.				
a) 650 b)600 c)635	d)550			
46) gives banded appe	earance to the skeletal muscle.			
a) Sarcomere b) Sar	rcoplasm			
c) Sarcosome d) Sar	coplasmic reticulum			

47) A nerve cell in which there called	e is not myelin shealth surrounding its axon is		
a) Myelinated neuron	b) Non myelinated neuron		
c) Bipolar neuron	d) Unipolar neuron		
48) Collecting tubule is lined by	y		
a) Squamous epithelium	b) Columnar epithelium		
c) Cuboidal epithelium	d) Cuboidal & Columnar epithelium\		
49) The reabsorbtion of water harmone.	r in the kidney is under the control of		
a) STH B) ACTH	C) LH D) ADH		
50) Titin is also known as			
a) Connecting protein	b) digestive protein		
c) Both of these	d) none of these		
Q.2 Long answer question			
1) Describe human respiratory	system in brief		
2) Define absorption. Describe intestinal tract	the process of absorption of fats in the gastro		
3) Define digestion. Describe n	nechanism of digestion of food in intestine		
4) What is impulse? Explain it with suitable diagrams and how it propagates through neuron			
5) classify the neurons on the basis of its cytological process morphological features and functions with suitable diagrams			
6) Explain the mechanism of m	suscle contraction with the help of diagrams		
7) Describe neuromuscular juno	ction and state its significance		
8) Define the structure of nephron and describe mechanism of urine formation			
9) Describe cardiac cycle of human heart			

10) Define ultra structure of a skeletal muscle with help of necessary diagram.

Q.3 Write short answer question

- 1) Nephron
- 2) Absorption of proteins
- 3) Neuroplasm
- 4) Role of Bile
- 5) Counter current mechanism
- 6) Leucocytes
- 7) External structure of mammal heart
- 8) Function of heart
- 9) Explain Bohrs effect
- 10) Explain chloride shift
- 11) Explain air conducting part of human respiratory system
- 12) Give mechanism of inspiration and expiration in human
- 13) Explain transport of Oxygen and carbon di oxide between blood and tissue
- 14) Describe the structure of nephron and counter –current mechanism of urine formation
- 15) Describe the Cardiac cycle of heart
- 16) Describe in human respiratory system
- 17) Explain in brief structure of Neuron
- 18) Resting potential of a neuron
- 19) Functional types of neurons
- 20) Explain types of muscle