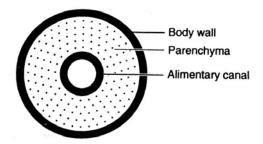
# www.sakshieducation.com MOCK PAPER IN ANIMAL ORGANIZATION

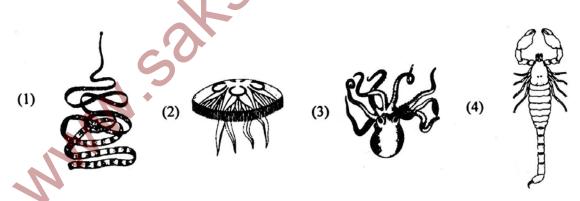
01.	Which epithelial tissue exists in the walls of blood vessels, and sacs of lungs?					
	a) Cuboidal	b) Columna	r			
	c) Squamous	d) Ciliated	columnar			
02.	Which of the follow	ving epithelium lin	es the moist surfa	ce of the buccal cavity?		
	a) Stratified keratini	zed squamous	b) Stratified non-	keratinized squamous		
	c) Cuboidal		d) Stratified colu	mnar		
03.	Which epithelium l	ines the inner surf	face of the urinary	bladder and ureters?		
	a) Cuboidal b) Tra	nsitional c) Co	ompound d) S	Stratified		
04.	Which cell junction	s facilitate the cell	ls to communicate	with each other by		
	connecting the cyte	oplasm of adjoinii	ng cells for rapid t	ransfer of ions and		
	molecules?		6.0			
	a) Tight junctions		b) Adhering junc	tions		
	c) Gap junctions		d) Desmosome			
05.	Mark the tissue wh	ich is most primit	ive, omnipresent a	nd called as wear and		
	tear tissue, with li	ttle or no intercell	ular matrix			
	a) Epithelial tissue	b) Connective tissu	ie c) Muscular tissu	e d) Nervous tissue		
06.	Cells of germinal e	pithelium are:				
	a) Cuboidal	b) Columnar	c) Squamous	d) Ciliated		
<b>07.</b>	Ependyma forms th	ne lining of				
	a) Ventricles of brain	in b) Ventricles of	of heart c) Intestine	d) Buccal cavity		
08.	Which one of the fo	ollowing statement	s is false?			
	a) The body cells of eumetazoans form tissues					
1.	b) Animals get carbon and energy by ingesting other organisms					
	c) Animals are motil	le; possess active m	ovement during so	ne stage in their life cycle		
	d) Meiotic cell divis	ions transform the a	animal zygote into a	a multicellular embryo		
09.	Cell aggregate body	y plan is exhibited	by:			
	a) Sponges	b) Flatworms	c) Cnidarians	d) Round worms		

10. The blind sac body plan is shown by:			:			
	a) Sponges		b) Cnidarians and flatworms			
	c) Flatworms and roundworms		d) Roundworms an	nd earth worms		
11.	Which of the following is a rare type of symmetry in animals?					
	a) Radial	b) Bilateral	c) Biradial	d) Spherical		
12.	Bilateral symn	netry is accompanied	by:			
	a) Neoteny	b) Metamerism	c) Metamorphosis	d) Cephalization		
13.	Germ layers in	n sponges are				
	a) One	b) Two	c) Three	d) Absent		
14.	Besides Anneli	da and Arthropoda, r	netamerism is found	in:		
	a) Cestoda	b) Mollusca	c) Chordata	d) Acanthocephala		
<b>15.</b>	Development of	of mesoderm in the for	rm of muscles in bod	y wall, leaving		
	alimentary canal non-muscular is the feature of:					
	a) Acoelomates	b)Pseudoce	oelomates			
	c) Enterocoelor	nates d) Schizoc	oelomates			
16.	Which one of t	he following is not a d	leuterostome?			
	a) Cuttle fish	b) Hag fish	c) Star fish	d) Cat fish		
<b>17.</b>	In understand	ing different types of s	symmetry, the term <b>u</b>	ısed as principal axis		
	means:	119				
	a) A flat area th	at runs through any axi	is			
	b) An imaginary straight line joining two opposite points at the ends					
	c) An imaginar	y straight line joining tl	he midpoint at one end	l and the midpoint at the		
	opposite end					
	d) An imaginar	y line passing through	focus.			
18.	Which of the following option is correct?					
	A) If a bone is kept in Hcl for some time, its inorganic part is dissolved and organic					
	part is left behin	nd				
	B) If a bone is b	ournt, its inorganic mat	ter is destroyed and or	ganic part is left behind		
	a) A is correct,	B is incorrect	b) B is correct, A is	s incorrect		
	c) Both A & B	are correct	d) Both A & B are	incorrect		

- 19. Which of the following is not correct w.r.t cartilage?
  - a) Intercellular material of cartilage is solid and pliable
  - b) It resists compression
  - c) All the cartilages in vertebrate embryo are replaced by bones in adult
  - d) Chondrocytes are cells of cartilage
- 20. Which of the following forms the inter nasal septum
  - a) Fibrous cartilage b) Hyaline cartilage c) Elastic cartilage d) Calcified cartilage
- 21. The cross section of the body of an invertebrate is given below. Identify the animal which has this body plan



- a) Planaria
- b) Earthworm
- c) Cockroach
- d) Roundworm
- 22. The figure shows four animals (1), (2), (3) and (4). Select the correct answer with respect to common characteristics of two of these animals



- a)(3) and (4) have a true coelom
- b) (1) and (4) respire mainly through body wall
- c) (2) and (3) show radial symmetry d) (1) and (2) have cnidoblasts for self-defence
- 23. The percentage of total volume occupied by RBCs is
  - a) Haematuria
- b) Haemolysis
- c) Hematocrit
- d) Haemophilia

# 24. Study the following and identify the set of correct statement(s) pertaining to mature mammalian RBCs.

- i. They are circular, biconcave and enucleate in all mammals.
- ii. They are elliptical in shape in camels and Llamas.
- iii. The total RBCs count in a woman is more than that of a man.
- iv. Erythropoietin stimulates spleen to enhance the production of RBCs at very high altitudes.
- a) I & IV
- b) II & IV

- c) II only
- d) III only

## 25. Identify the pair of vitamins which are essential for the maturation of RBC in man.

- a. Pyridoxine & pantothenic acid
- b. Cyanocobalamine & riboflavin
- c. Pantothenic acid & ascorbic acid
- d. Cyanocobalamine & folic acid.

#### 26. The WBCs that remove antigen and antibody complexes are those with

- a. Fewer and irregular granules in cytoplasm.
- b. A nucleus which is divided in to irregular lobes.
- c. A nucleus which is distinctly bilobed
- d. Specific, small and abundant granules.

# 27. Arrange the following in the descending order based on their % in total leukocyte count:

- I. Monocytes II. Neutrophils
- III.Basophils IV. Lymphocytes
- V. Eosinophils

- a. I-II-III-IV-V
- b. II-IV-I-V-III
- c. II-IV-III-V-I
- d. II-IV-I-III-V

#### 28. Identify the correct statements.

- I. Lymph is blood without RBCs, large plasma proteins and platelets.
- II. Lymph has more nutrients than blood.
- III. Interstitial fluid is returned directly to blood due to hydrostatic pressure at the arteriolar end.
- IV. Most of the intestinal fluid is returned at the venule end directly due to Osmotic pressure.
- a. I&IV
- b. II&III
- c. I&III
- d. I&II

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#### 29. Study the statements given below.

I.ECF contains relatively more nutrients and oxygen than lymph.

II.ECF contains water, solutes, proteins of low molecular weight and WBC.

III. Lymph capillaries of intestinal villi are lacteals.

IV. ECF is considered as Middleman between blood and tissues.

a. I&II are incorrect

b. I, II, III & IV are correct

c. IV only is correct

d. III only is correct

## 30. Study the following with reference to cardiac muscle and choose the correct set of statements.

- I. Myocardial cells are short, cylindrical and branched at the ends.
- II. Myocardial cells are uninucleate or binucleate.
- III. The adjacent myocardial cells are joined by gap junctions/electrical synapses.
- IV. Intercalated discs are characteristic of cardiac muscle.
- a. Only I&II
- b. Only II & III
- c. Except I
- d. I, II, III and IV

# 31. Due to the presence of multinucleate condition, the skeletal muscle fibre is described as:

- a. Polyploidy
- b. Polykaryon
- c. Syncytial
- d. Coenocytic.

#### 32. The largest muscle in human body is:

- a. Quadriceps
- b. Stapedius
- c. Gluteus maximus d. Gastrocnemius.

# 33. Which of the one of the following tissues in man shows the least capacity for regeneration?

a. Epithelium of skin

b. Endothelium of blood vessels

c. Skeletal tissue of long bones

d. Nervous tissue of brain

#### 34. Bipolar neurons are found in:

a. Sensory cells of the internal ear

b. Retina of eye

c. Olfactory sensory epithelium

d. All the above

#### 35. Identify the correct statement with regard to the node of Ranvier:

- a. It is covered by myelin sheath
- b. Axolemma is discontinuous at nodes of Ranvier.
- c. Myelin sheath is discontinuous at the nodes of Ranvier.
- d. Both neurilemma and myelin sheath are discontinuous at nodes of Ranvier

**36. Assertion** (A): Mammary gland is an example of apocrine gland

**Reason (R):** Mammary gland releases secretion by pinching the apical portions of the cells

- a) If both A & R are true and the reason is the correct explanation of the A
- b) If both A & R are true, but the reason is not the correct explanation of the A
- c) If A is true statement, Reason is false
- d) If both A and R are false statements
- **37. Assertion** (A): RBC of mammals are enucleated

**Reason (R):** The absence of nucleus in mammalian RBC helps to accommodate maximum amount of haemoglobin

- a) If both A & R are true and the reason is the correct explanation of the A
- b) If both A & R are true, but the reason is not the correct explanation of the A
- c) If A is true statement, Reason is false
- d) If both A and R are false statements
- 38. **Assertion (A):** Visceral muscles are smooth muscles.

Reason(R): The myofibrils of smooth muscle fibres do not show cross bands due to regular arrangement of Thin and thick myofilaments.

- a) If both A & R are true and the reason is the correct explanation of the A
- b) If both A & R are true, but the reason is not the correct explanation of the A
- c) If A is true statement, Reason is false
- d) If both A and R are false statements

#### 39. Smooth muscle fibres

- I. Are fusiform & uninucleated cells
- II. Are involuntary in function
- III. Do not perform slow and sustained contractions
- IV. Do not show striations due to regular arrangement of actin and myosin filaments. Choose the incorrect set of statements.
- a. I & II
- b. III & IV
- c. II & III
- d. I & IV

## 40. The 3<sup>rd</sup> key transition in the evolution of animal body plan is

- a. Cellular level
- b. Tissues
- c. Bilateral symmetry
- d.\*Body cavity.

#### 41. Study the following table.

S.No	Epithelium	Feature	Location
A	Stratified &	Cells in apical layer are cube	Ducts of sweat
	cuboidal	shaped.	glands.
В	Stratified &	Cells in the apical layer are	Conjunctiva of eye
	columnar	columnar.	
C	Transitional	Superficial cells are squamous	Urinary bladder
		in undescended state.	60
D	Pseudo-stratified	Mucus traps foreign particles	Trachea
	&ciliated		
	columnar	J.C	

a.	Only	A&B	are	correct
----	------	-----	-----	---------

b. A&B is incorrect

c. A,B and D are incorrect

d. Except C others are correct

#### 42. Most of the neurons of our body are:

- a. Bipolar
- b. Unipolar
- c. Multipolar
- d. Pseudo-unipolar

- 43. Nissl's granules are made up of:
  - a. Fat granules
- b. Ribosomes
- c. Mitochondria
- d. Lysosomes.
- 44. The products of cellular wear and tear accumulating in lysosomes with age are
  - a. Nissl granules b. Lipofuscin granules c. Boutons d. Chromatoid bodies

- 45. The soma of a sensory or pseudo unipolar neuron is located in:
  - a. Ventral root of a spinal nerve
- b. Dorsal root ganglion of a spinal nerve
- c. Dorsal funiculus of a spinal cord
- d. Ventral funiculus of a spinal cord.

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**QUESTION BANK EXERCISE—3** 

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**NOTE**: Follow the options given below to mark your response

A. If assertion and reason are correct and assertion is the proper explanation.

B. If A and R is correct and R is not an explanation to A.

C. If A is and R is false D. If both A&R are false

#### 1. The grade of organization in sponges is

a) Cellular grade

b) Cell-tissue grade

c) Protoplasmic grade

- d) Organ-System grade
- 2. Metazoans without tissue grade organization are called
  - a) Parazoans
- b) Protozoans
- c) Deuterostomians d) Eumetazoans
- 3. Cell-tissue grade of organization occurs in
  - a) Hydra
- b) Sponge
- c) Starfish
- d) Liver fluke
- 4. Which level of organization is found in majority of animals?
  - a) Cellular grade

b) Cell-tissue grade

c) Tissue-organ grade

- d) Organ system grade
- 5. Match the phyla listed under column-I with the level of organization given under column-II. Choose the answer which given the correct combination of the alphabets of the two columns.

Column-I

Column-II

(Phylum)

(Level of Organization)

- A) Porifera
- P) Cell-tissue
- B) Protozoa

Q) Protoplasmic

C) Cnidaria

R) Organ-system

D) Chordata

- S) Cellular
- a) A = S, B = Q, C = P, D = R
- b) A = Q, B = R, C = S, D = P
- c) A = S, B = R, C = Q, D = P
- d) A = R, B = Q, C = S, D = P
- An animal without anus is
  - a) Unio
- b) Pheretima
- c) Fasciola
- d) Periplaneta
- 7. Which of the body plan is found in nematodes?
  - a) Blind sac

c) Cell aggregate

c) Tube-within-a-tube

d) None of these

8.	Majority of adult sponges show			
	a) Asymmetry		b) Radial symmetry	
	c) Bilateral symmetry		d) Biradial symm	etry
9.	Radial symmetry	occurs in		
	a) Porifera and Coe	lenterata	b) Arthropoda and	d Mollusca
	c) Coelenterata and	Echinodermata	d) Mollusca and H	Echinodermata
10.	Which of the follo	wing metazoan phyl	a are grouped und	er the Radiata?
	a) Arthropoda and l	Porifera	b) Cnidaria and C	tenophora
	c) Mollusca and Co	elenterata	d) Mollusca and I	Echinodermata
11.	Which symmetry i	s exhibited by sea w	alnuts?	
	a) Bilateral	b) Radial	c) Spherical	d) Biradial
12.	Which of the follo	wing is strongly asso	ciated with cephal	lization?
	a) Asymmetry		b) Radial symmetry	
	c) Bilateral symmet	ry	d) Biradial symmetry	
13.	Bilateral symmetr	y is absent in	10	
	a) Frog	b) Obelia	c) Octopus	d) Mammal
14.	The number of lat	eral oesophageal he	arts in Pheretima i	is:
	a) 2	b) 4	c) 4pairs	d) 8pairs
<b>15.</b>	Which symmetry i	s found in a sea ane	mone?	
	a) Biradial	b) Asymmetry	c) Spherical	d) Pentamerous
16.	A fixed animal ger	nerally possesses		
	a) No symmetry	0	b) Radial symmetry	
	c) Bilateral symmet	rry	d) All of the above	
17.	Radial symmetry i	s often exhibited by	animal having	
	a) Ciliary mode of t	feeding	b) Aquatic mode of living	
	c) Benthos / sedentary nature		d) One opening of alimentary canal	
18.	Animals with radi	al symmetry in adul	t and bilateral syn	nmetry in larva are
	a) Annelids	b) Echinoderms	c) Coelenterates	d) Platy helminthes
19.	All diploblastic an	imals are		
	a) Eucoelomates		b) Enterocoeloma	ites
	c) Radially symmetrical		d) Bilaterally symmetrical	

20.	All triploblastic animals are					
	a) Eucoelomates		b) Schizoelomates			
	c) Radially symmetrical		d) Bilaterally syn	nmetrical		
21.	An animal without segmentation is					
	a) Shipworm	b) Tapeworm	c) Earthworm	d) Glowworm		
22.	22. Metamerism is characteristic of					
	a) Porifera	b) Mollusca	c) Annelida	d) Echinodermata		
23.	What is common a	mong an earthwori	n, a cockroach an	d a centipede?		
	a) Haemocoel		b) Metamerism	~O`		
	c) Sexual dimorphi	sm	d) Chitinous exo	skeleton		
24.	A coelom (body ca	vity) derived from l	blastocoel is know	n as		
	a) Schizocoel	b) Enterocoel	c) Haemocoel	d) Pseudocoel		
25.	The animals with pseudocoel are					
	a) Amia and leech		b) Lepisma and l	iverfluke		
	c) Aurelia and drag	onfly	d) Wuchereria an	nd hookworm		
26.	Development of m	esoderm in the forn	of muscles in bo	dy wall, leaving		
	alimentary canal non-muscular is the feature of					
	a) Acoelomates		b) Pseudocoelomates			
	c) Enterocoelomate	s	d) Schizocoelom	ates		
27.	An eucoleomate pl	hylum is				
	a) Porifera	b) Cnidaria	c) Arthropoda	d) Aschelminthes		
28.	M-cells (Mesoblas	t cells) play an impo	ortant role in the d	levelopment of which		
	body cavity?					
	a) Schizocoelomate	b) Pseudocoelom	c) Enterocoelom	ate d) Coelenteron		
29.	Protostomes and d	leuterostomes differ	in			
	a) Type of cleavage		b) Origin of mouth and anus			
	c) Mode of coelom	formation	d) All of the above			
30.	The following anir	nal phylum belongs	to Deuterostomia	ı		
	a) Echinodermata	b) Mollusca	c) Arthropoda	d) Annelida		

31.	Identify the group in the following having all animals belonging to the same					
	class					
	a) Dog fish, sliver	fish, crayfish, and	flatfish			
	b) Glowworm, silk	worm, housefly, b	edbug			
	c) Sea urchin, sea	cucumber, sea fan,	sea lion			
	d) Centipede, earthworm, caterpillar, ship worm					
32.	In which of the following groups, all animals are hermaphrodites?					
	a) Tapeworm, Toa	d, Starfish	b) Hydra, Leech	, Tapeworm		
	c) Hydra, Ascaris,	Pheretima	d) Hydra, Homo	sapiens, Leech		
33.	Gorilla, chimpanz	zee, monkey and ı	man belong to the sa	me		
	a) Family	b) Species	c) Genus	d) Order		
34.	Venus's girdle bel	longs to the phylu	ım	0,		
	a) Cnidaria	b) Porifera	c) Ctenophora	d) Chordate		
35.	Schizocoelomates	and enterocoelon	nates are			
	a) Acoelomates		b) Invertebrates			
	c) True coelomates	3	d) Echinoderms	only		
36.	Haversian systems	s are characteristi	ic of the long bones o	of?		
	a. Reptiles	b. Birds c.	Mammals	d. Amniotes		
<b>37.</b>	<b>Deuterostome con</b>	ndition and indete	rminate, radial clea	vage are characteristics		
	of	119				
	a) Chordates, arthr	opods and annelid	S			
	b) Arthropods and	echinoderms				
	c) Chordates and e	chinoderms				
	d) Chordates and a	rthropods				
38.	The plane that div	vides the body int	o right and left halve	es		
	a) Sagittal	b) Radial	c) Transverse	d) Frontal		
39.	The weakest of all	l cartilages is:				
	a. Hyaline	b. Fibrous	c. Calcified	d. Elastic		
40.	Irregular dense fi	brous tissue is fou	ınd in;			
	a. Perichondrium	b. Periosteum	c. Periodontal mem	brane d. a,b,&c		

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41.	If, RBCs are removed, the remaining part of a sample of blood is called					
	A. Serum	B. Plasma	C. Lymph	D. Buffi coat		
42.	If, all the formed e	elements are remove	d from a sample of blo	ood the remaining		
	part of it is to be r	referred to as				
	A. Serum	B. Plasma	C. Lymph	D. Puss		
43.	A tissue with a ma	atrix which is not sec	reted by its living com	ponents is		
	A. Blood	B. Cartilage	C. Bone	D. Adipose		
44.	The pH of blood u	ınder normal conditi	ons in humans is			
	A.7.8	B.7.4	C.6.7	D.6.4		
<b>45.</b>	The percentage of	fluid matrix and for	med elements of blood	l is respectively:		
	A.45&55	B.55&45	C.60&40	D.40&60		
46.	The total volume of	of blood in a healthy	man weighing 60kgs i	s		
	A.4lts	B.5to6lts	C.8lts	D.10lts		
<b>47.</b>	The percentage of	all types of dissolved	l solutes in plasma of l	blood is		
	A.92	B.55	C.45	D.8		
48.	The most abundan	nt serum protein am	ong the following is			
	A. Fibrinogen	B. Prothrombin	C. Globulin	D. Albumin		
49.	The plasma protei	n which is mainly re	sponsible for maintair	ning colloidal		
	osmotic pressure o	of blood is				
	A. Globulin	B. Albumin	C. Fibrinogen	D. Prothrombin		
<b>50.</b>			ns in blood plasma cau			
	Reason: Albumins mainly maintain blood colloidal osmotic pressure and fall in the					
	albumin level lower	ers osmotic pressure o	f blood.			
	Answer					
51.	Which constituent	ts of blood plasma ac	t as "acid base buffers	5?"		
	A. Chlorides	B. Sulphates	C.Proteins	D. Lipids		
52.	The blood cells in	the earliest stages of	embryogenesis are for	rmed from		
	A. Liver		B. Spleen			
	C. Red bone marro	W	D. Yolk sac mesodern	n		

53.	Which one of t	Which one of the following is the primary site of haemopoiesis in the final stages				
	of embryonic	development and after	birth?			
	A. Spleen		B. Liver			
	C. Red bone ma	arrow	D. Yolk sac mesoder	rm		
54.	The shortage of $O_2$ in the atmosphere at very high altitudes stimulates the					
	secretion of wh	nich one of the following	g hormones by kidney	s in the people living		
	in those areas.					
	A. Renin	B. Angiotensin	C.Erythropoietin	D.Aldosterone		
55.	An abnormal i	rise and fall in RBC cou	ınt are respectively re	ferred to as:		
	A. Polycythaen	nia and erythroclasia	B. Erythropoiesis an	d erythroclasis		
	C. Polycythemi	a and erythrocytopenia	D. Polycythemia and	l anemia		
<b>56.</b>	The state of R	BC in the course of its d	levelopment in which	the nucleus and		
	other organell	es are lost is				
	A. Reticulocyte	B. Reticulate cell	C. Proerythroblast	D. Haemocytoblast		
57.	Identify the in	correct statements with	reference to a haemo	globin molecule in		
	the RBC of man under normal conditions					
	i. Each haemoglobin molecule contains four polysaccharide chains and four					
	heme molecules.					
	ii. Each heme molecule contains one Fe <sup>2+</sup>					
	iii. Haemoglobin is a conjugated protein.					
	iv. Each haen	iv. Each haemoglobin molecule can carry one oxygen molecule				
	A. ii & iii	B. i & IV	C. i & iii	D. ii & iv		
58.	The life span o	f RBC in humans is (da	ays)			
	A. 100	B.120	C. 90	D. 12		
	11/2					
1						

<b>59.</b>	Study the following statements and choose the correct statements pertaining to WBCs						
	i.	A slight incre	ease in WBC count a	nd fall in WBC count	respectively are		
		referred to a	s leukaemia and leul	kocytopenia.			
	ii.	WBCs perfor	rm diapedesis to reac	h extra cellular areas.	,		
	iii.	The total leul	kocyte count under n	ormal conditions in a	human being is		
		60,000 - 1, 0	0,000/Cmm.				
	iv. WBC exhibit leukocytosis during parasitic infections and allergy						
	A. i	& iii	B. ii & iii	C. ii & iv	D. iv only		
60.	The	blood cells tha	at supplement the fu	nction of mast cells by	producing heparin		
	and	histamine who	enever they are requi	ired.			
	A. N	leutrophils	B. Monocytes	C. Basophils	D. Acidophils		
61.	Whi	ich of the follo	wing are described a	s microscopic police n	ien?		
	A. M	Ionocytes	B. Neutrophils	C. Eosinophils	D.Basophils		
<b>62.</b>	In fe	emale mamma	ls which of the follow	ving WBCs have a dru	ımstick body		
	atta	ched to their n	ucleus.	10			
	A. C	Cells in which th	ne nucleus is divided i	n to 2to 5 lobes.			
	B. C	Cells which play	a role in allergic reac	etions.			
	C. C	Cells that play a	role in immunologica	l reactions.			
	D. C	Cells that differe	entiate into macrophag	ges in connective tissues	S.		
63.	The	largest, motile	e phagocytes are WB	C with a			
	A. L	arge spherical	nucleus	B. Reniform nucleus			
	C. M	Iulti lobed nucl	eus	D. Irregularly lobed no	ucleus		
64.	The	WBCs that pe	erform 'reverse diapo	edesis and reach blood	l vessels are		
	A. M	Monocytes	B. Neutrophils	C. Lymphocytes	D. Eosinophils		
<b>65.</b>	A cl	otting factor s	ecreted by platelets o	of blood is:			
	А. Т	hrombin	B. Thrombokinase	C. Thromboplastin	D. Fibrinogen		
66.	Plat	elets are form	ed by the fragmentat	ion of which cells in re	ed bone marrow		
	A. N	/legakaryoblast	s	B. Megakaryocytes			
	C.Tl	nromboblasts		D. Thrombocytes			

<b>67.</b>	The formed elements of blood that play an important role in the process of				
	clotting of bloo	d are			
	A.RBCs	B. Granulocytes	C. Agranulocytes	D. Platelets	
<b>68.</b>	Lymph finally	reaches blood through	:		
	A. Jugular veins	S	B. Subclavian veins		
	C. Carotid veins	S	D. Hepatic veins		
69.	Which one of the	he following is conside	red as the most import	ant function of	
	lymph?				
	A. Transport of	oxygen to tissues	B. Transport of nutrie	ents to tissues	
	C. To return into	erstitial fluid to blood	D. To return CO <sub>2</sub> to l	ungs	
70.	Lymphoid tissu	ie is found in:		<b>(</b> ,	
	A. Tonsils		B. Thymus		
	C. Lymph node	S	D. Tonsils, thymus &	lymph nodes	
<b>71.</b>	Which of the fo	ollowing is a tissue?	6.0		
	A. Liver	B. Pancreas	C. Gut	D. Lymph	
72.	Identify the ma	nin difference between	blood and lymph.		
	A. Blood has R	BCs while lymph has W	BCs.		
	B. Blood has les	ss nutrients while lymph	has relatively more nut	rients.	
	C. Blood has all	formed elements while	lymph has all except R	BCs	
	D. Blood has les	ss fibrinogen while lym	ph has more fibrinogen.		
<b>73.</b>	The most impo	rtant centre for the pr	oduction of lymph is:		
	A. Liver	B. Spleen	C. Interstitial space	D. Kidney	
		MUSCULA	D TICCUEC		
	11/2	WOSCOLA	K HSSUES		
74.	I. All muscul	ar tissues are derived f	from mesoderm.		
		iris and ciliary body a		erm.	
		y, conductivity and cor			
	muscles.	•	·		
	IV. All striated	l muscles undergo fatig	gue. Choose the incorr	rect statements.	
	A. II & III	B.II & IV	C. I & IV	D. I & III]	

<b>75.</b>	Mus	Muscle fibers are called											
	A. S	arcocytes	B. Myocytes	C. A & B	D. Sarcosomes								
<b>76.</b>	Stud	ly the statem	ents pertaining to a	skeletal muscle fibre	and choose the correct								
	state	ements.											
	I.	The power h	ouses of a sarcocyto	e are called sarcosome	es								
	II.	A skeletal m	uscle fibre has man	y myofibrils.									
	III.	A myofibril	has thick and thin f	ïlaments.									
	IV.	The thick ar	e thick and thin filaments of a myofibril in a skeletal muscle fibre show										
		irregular aı	rrangement.										
	A. E	xcept IV	B. Only I & II	C. Only III & IV	D. II & III								
77.	The outermost connective tissue sheath enclosing a group of fascicles is .												
	A. E	ndomysium	B. Epimysium	C. Perimysium	D. Sarcolemma								
<b>78.</b>	A sh	eet like conn	ective tissue layer fo	ormed by the extension	n of connective tissue								
	beyo	ond the musc	e is called	6.0									
	A. T	endon	B. Aponeurosis	C. Ligament	D. Syndesmosis								
<b>79.</b>	Stud	ly the followi	ng and identify the	false statement.									
79.	A. A skeletal muscle fibre is a long cylindrical multinucleate cell.												
	B. Skeletal muscle contracts quickly and Undergoes fatigue slowly.												
	C. S	atellite cells h	elp in the regeneration	on of skeletal muscle fil	ore.								
	D. A	Il striated mu	scles are voluntary m	nuscles.									
80.	Assertion (A): Visceral muscles are smooth muscles.												
	Reason(R): The myofibrils of smooth muscle fibres do not show cross bands due												
	to regular arrangement of Thin and thick myofilaments.												
	Answer												
	I.	Are fusiform	, uninucleated cells										
80.	II. Are involuntary in function												
	III.	Do not perfor	rm slow and sustain	ed contractions									
	IV. Do not show striations due to regular arrangement of actin and myosin												
		filaments.											
	Choose the incorrect set of statements.												
	A. I	& II	B. III & IV	C. II & III	D. I & IV								

81.	www.sakshie Which of the following are not smoot	ducation.com th muscles?								
	A. Muscles of ciliary body of an eye	B. Muscles of iris								
	C. Arrector pili muscles	D. Intrinsic muscle	es of human tongue.							
82.	Smooth muscle fibres									
	I. Are fusiform, uninucleated cells									
	II. Are involuntary in function									
	III. Do not perform slow and sustain	ed contractions								
	IV. Do not show striations due to reg	gular arrangement of	f actin and myosin							
	filaments.		60.							
	Choose the incorrect set of stater	nents.								
	A. I & II B. III & IV	C. II & III	D. I & IV							
83.	Assertion: Cardiac muscle is highly r	esistant to fatigue.								
	Reason: In a cardiac muscle continue	ous aerobic respirati	on is facilitated by a							
	relatively large number of sarcosome	es, myoglobin molecu	iles and copious supply							
	of blood.									
	I. Are fusiform, uninucleated cells									
	II. Are involuntary in function									
	III. Do not perform slow and sustain	ed contractions								
	IV. Do not show striations due to reg	gular arrangement of	f actin and myosin							
	filaments.									
	Choose the incorrect set of stater									
	A. I & II B. III & IV	C. II & III	D. I & IV							
-84.	Assertion: Cardiac muscle acts as a functional syncytium.									
	<b>Reason:</b> The gap junctions facilitate the conduction of electrical impulses all along									
	the cardiac muscle fibres so that a whole	le hearted contraction	of the entire muscle as a							
1	single unit occurs.									
	I. Are fusiform, uninucleated cells									
	II. Are involuntary in function									
	III. Do not perform slow and sustained contractions									
	IV. Do not show striations due to regular arrangement of actin and myosin filaments									
	Choose the incorrect set of stateme		D I 0- IV							
	A. I & II B. III & IV	C. II & III	D. I & IV							

<b>85.</b>	The oxygen dissociation curve of oxyhaemoglobin is												
	A. Linear	B. Sigmoid	C. Parabolic	D. Hyperbolic									
86.	The fine connective tissue layer enveloping an individual muscle fibre is:												
	A. Epimysium	B. Perimysium	C. Endomysium	D.Sarcolemma									
87.	A muscle is relativ	vely rich in:											
	A. Glycogen	B. Proteins	C. Lipids	D. Vitamins									
88.	Contractile tissue	s have the following	g features:										
	I. They are mesod												
	II. They contain s	tretch receptors.											
	III. They perform	<b>(</b> , .											
	IV. They do not u	ndergo fatigue.											
	Which of the above												
	A. I, II, III & IV	B. only I, II & IV	C. only I, III & IV D. I, II & III										
89.	The repeating uni	t of a skeletal myof	ibril is :										
	A. Sarcomere	B. Myomere	C. Actomyosin	D. Motor unit									
90.	Myofibrils are ma	de up of:	O'										
	A. Actin and myos	in	B. Troponin and trop	B. Troponin and tropomyosin									
	C. Both A & B		D. Myosin only										
91.	Identify the set of	proteins that are p	resent in the thin filam	ents of a myofibril.									
	A. Actin,troponin	& tropomyosin	B. Trypsin & actin										
	C. Troponin & myo	sin	D. Myosin & tropomyosin										
92.	Skeletal muscles a	re attached to bone	es except in:										
	A. Pinna &nose		B. Jaw &nose										
	C. Tongue & oesop	ohagus	D. Pinna& skull										
93.	Smooth muscles a	re not found in:											
1	A. Fallopian tube	B. Blood vessel	C. Wall of intestine	D. Eyeball muscle									
94.	Smooth muscles o	ccur in the wall of:											
	A. An artery B. V	Vein C. Uterus D. An artery, vein &uterus											

# Www.sakshieducation.com Which one of the following is a feature of cardiac muscle? A. They are branched and enucleate. B. They contract quickly and do not get fatigued quickly. C. They contract slowly and do not get fatigued. D. They contract quickly and soon get fatigued.

#### 96. Cardiac muscles are:

A. Striated and voluntaryB. Striated and involuntaryC. Smooth and involuntaryD. Smooth and voluntary

#### 97. The muscles surrounding the pupil of the eye of a man are:

A. Striated and voluntaryB. Striated and InvoluntaryC. Smooth and involuntaryD. Smooth and voluntary

#### 98. In the wall of stomach the layer of muscles nearest to peritoneum is

A. Circular B. Oblique C. Longitudinal D. Dorsoventral

#### 99. Ciliary muscles are found in:

A. Diaphragm of man B. Vertebrate eye C. Uterus D. Trachea of man

#### NERVOUS TISSUE

#### 100. The functional unit of nervous system is:

A. Axon B. Cyton C. Dendrite D. Neuron

#### 101. Neurons

A. Divide by amitosis

B. Divide by mitosis

C. Divides by meiosis D. Do not divide

#### 102. The longest cell in the human body is:

A. Myocyte B.Neuron C. Osteocyte D. Fibrocytes

## 103. Which one of the following is absent in a neuron:

A. Nucleus B. Centrosome C. Golgi complex D. Mitochondrion

#### 104. The areas where the medullary sheath is absent in the nerve fibre are called

A. Schwann cells B. Nodes of Ranvier C. Schwann node D. Nissl bodies

#### 105. The afferent and efferent processes of a neuron are respectively called:

A. Axon & cyton B. Cyton & dendrite C. Dendrite & axon D. Axon & dendrite

#### 106. A group of cell bodies in CNS and PNS are respectively called:

A. Nucleus and ganglion B. Ganglion and nucleus

C. Tract and ganglion D. Nucleus and tract

#### 107. Study the following and identify the incorrect statement:

- A. Dendrites and cyton contain Nissl bodies and neurofibrils
- B. Dendrites conduct impulses towards the cyton whereas the axon conducts impulses away from the soma.
- C. Nissl bodies are absent in an axon.
- D. The axoplasm of an axon does not contain neurofibrils

#### 108. **Identify the wrong statement.**

A. Bipolar

- A. Distally an axon branches into many fine filaments called telodendria.
- B. The axon terminals end in terminal boutons
- C. The synaptic knobs possess synaptic vesicles that store neurotransmitters.
- D. Myelinated axons are found in the grey matter.

#### The axons in the CNS and PNS are called respectively: 109.

B. Tract and nerve A. Nerve and tract

C. Synapse and nucleus D. Tract and nucleus

#### 110. The most abundant neurons in the human body are:

B. Unipolar

The soma of a sensory or pseudo unipolar neuron is located in:

## 111.

A. Ventral root of a spinal nerve B. Dorsal root ganglion of a spinal nerve

C. Multipolar

D. Pseudo unipolar

C. Dorsal funiculus of a spinal cord D. Ventral funiculus of a spinal cord

#### 112. Identify the correct statements pertaining to pseudo unipolar neurons.

A. They are afferent neurons. B. They are efferent neurons

C. They are mixed type D. Internuncial

#### The glial cells of peripheral nervous system are:

A. Astroglia B.Oligodendroglia

C.Satellite cells schwann cells D.Microglia

#### 114. Motor and interneurons are:

D.Afferent A. Unipolar C. Bipolar B. Multipolar

#### 115. Multipolar neurons have:

- A. One axon and two or more dendrites
- B. Many axons and one afferent process
- C. A single efferent process and only two afferent processes
- D. Many efferent processes.

#### 116. Bipolar neurons are found in:

- A. Sensory cells of the internal ear
- B. Retina of eye
- C. Olfactory sensory epithelium
- D. All the above
- 117. Study and identify the set of true statements pertaining to myelinated axons.
  - i. Internodes contain Schwann cells.
  - ii. The outermost layer of Schwann cell contains only lipids.
  - iii. In CNS a single oligodendrocytes can myelinate many axons.
  - iv. The portions of a myelinated axon without myelin sheath are internodes.
  - A. I & ii
- B. i. ii& iii
- C. I & Iii
- D. iii & iv

118. Identify the set of mismatches

Type of axon Occurrence

I. Myelinated axons Grey matter of CNS and ANS

II. Myelinated axons White matter of CNS and most peripheral

nerves

III. Non-myelinated axons Grey matter of CNS and ANS

IV. Non-myelinated axons White matter of CNS and most peripheral

nerves

A. ii & iii

B. I & ii

C.iii & iv

B. Endoneurium

D. I & iv

119. Arrange the following in the correct sequence from the myelinated part of an axon to the nerve.

A. Fascicle

Z. Axolemma D. Epineurium

E. Neurilemma F. Perineurium

G. Myelin sheath

A.C-G-E-B-A-F-D B. C-G-B-E-A-F-D C.C-G-F-B-A-D D. C.G-E-F-B-A-D

#### 120. The cells that provide microenvironment suitable for neuronal activity are:

- A. Neuroglia
- B. Non-conducting cells of nervous tissue
- C. Cytons
- D. A& B

#### 121. Study and identify wrong statement from those given below.

- A. Neuroglia are cells that continue to divide throughout life.
- B. Astrocytes help in providing blood brain barrier.
- C. Ependymal cells are non-ciliated cells that line the ventricles of brain and central canal of spinal cord.
- D. Satellite cells and Schwann cells are Neuroglial cells of PNS

#### 122. Neuroglial cells derived from mesoderm are:

A. Oligodendroglia

B. Astrocytes

C. Microglia

D. Ependymal cells

#### 123. The cells that surround the cytons in ganglia are:

- A. Schwann cells B. Astrocytes
- C. Satellite cells
- D. Ependymal cells.

#### 124. Identify the correct statement with regard to the node of Ranvier

- A. It is covered by myelin sheath
- B. Axolemma is discontinuous at nodes of Ranvier.
- C. Myelin sheath is discontinuous at the nodes of Ranvier.
- D. Both neurilemma and myelin sheath are discontinuous at nodes of Ranvier

#### 125. Phagocytic cells present in brain are:

A. Astrocytes

B. Ependymal cells.

C. Microglia

D. Oligodendroglia

#### Question Bank Key for Paper on Animal Organization

#### EXERCISE – 3

		1		1		1		1				1		1				ı	
1)	a	2)	a	3)	a	4)	d	5)	a	6)	c	7)	c	8)	a	9)	c	10)	b
11)	d	12)	c	13)	b	14)	b	15)	a	16)	b	17)	c	18)	b	19)	c	20)	d
21)	a	22)	c	23)	b	24)	d	25)	d	26)	b	27)	c	28)	a	29)	d	30)	a
31)	b	32)	b	33)	d	34)	c	35)	c	36)	c	37)	c	38)	a	39)	a	40)	d
41)	С	42)	В	43)	A	44)	В	45)	В	46)	В	47)	D	48)	D	49)	В	50)	A
51)	С	52)	D	53)	С	54)	С	55)	С	56)	A	57)	В	58)	В	59)	C	60)	С
61)	A	62)	A	63)	В	64)	С	65)	С	66)	В	67)	D	68)	В	69)	С	70)	D
71)	D	72)	A	73)	С	74)	С	75)	С	76)	В	77)	D	78)	В	79)	С	80)	D
81)	D	82)	В	83)	A	84)	A	85)	В	86)	С	87)	В	88)	D	89)	A	90)	С
91)	A	92)	С	93)	D	94)	D	95)	С	96)	В	97)	C	98)	C	99)	В	100)	D
101)	D	102)	В	103)	В	104)	В	105)	С	106)	A	107)	D	108)	D	109)	В	110)	С
111)	В	112)	A	113)	С	114)	В	115)	A	116)	D	117)	С	118)	D	119)	A	120)	A
121)	С	122)	С	123)	С	124)	С	125)	S										
									K										