

BIOLOGY

BOOKS - A2Z BIOLOGY (HINGLISH)

STRUCTURAL ORGANIZATION IN ANIMALS

Section A Topicwise Questions Topic 1 Animal Tissues Epithellial Tissue And Connective Tissue

1. In multicellular animals, a group of similar cells along with intercellular substances perform a specific function. Such an organisation is called

A. Epithelium

B. Organs

C. Tissue

D. Organ system

Answer: C

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2. In animals, tissue are broadly classified into...a...types while in plants, tissue are of...b..types.

A. a-two, b-four

B. a-three,b-two

C. a-four, b-three

D. a-four, b-two

Answer: D

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3. Animal tissues are broadly classified into four types as

- A. Squamous, columnar, cuboidal and ciliated
- B. Simple, compound, special and glandular
- C. Epithelial, connective, neural and skeletal
- D. Neural, connective, epithelial and muscular

Answer: D

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4. The epithelial tissues are of

A. Three types, namely, squamous, cuboidal and columnar epithelium

B. Four types, namely, squamous, cuboidal, columnar and ciliated

epithelium

C. Two types, as, simple and compound epithelium

D. Two types, as, simple and complex epithelium

Answer: C

5. Fill in the blanks:

a. The...1...consists of two or more cell layers and has protective function as it does in our skin.

b. The...2...is composed of single layer of cells and functions as a lining for body cavities, ducts and tubes.

A. 1-Squamous, epithelium, 2-Cuboidal epithelium

B. 1-Columnar epithelium 2-Squamous epithelium

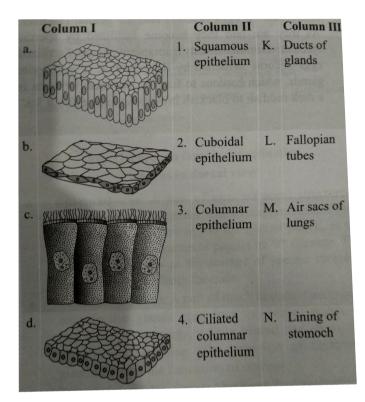
C. 1-Simple epithelium, 2-Compound epithelium

D. 1-Compound epithelium, 2-Simple epithelium

Answer: D

6. Match the columns I, II and Illand choose the correct combination from

the options given.



A. a - 3 - K, b - 2 - M, c - 1 - N, d - 4 - LB. a - 4 - N, b - 1 - K, c - 3 - L, d - 2 - MC. a - 3 - N, b - 1 - M, c - 4 - L, d - 2 - KD. a - 3 - N, b - 1 - M, c - 4 - K, d - 2 - L

Answer: C

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7. On the basis of structural modification of the cells, simple epithelium is further divided into

A. Two types- ciliated and glandular epithelium

B. Three types-squamous, cuboidal and columnar epithelium

C. Four types-squamous, cuboidal, columnar and ciliated epithelium

D. Two types-unicellular and multicellular epithelium

Answer: B



8. Match the columns I,II and III and choose the correct combination from

the options given.

ColumnI	ColumnII	Col
a. Tall and slender cells	1. Cuboidal epithelium	K.
b. Flattened cells with irregular boundaries	2. Columnar epithelium	L. '.
c. Cilia on their free surface	3. Squamous epithelium	M.
$d. ext{ Cube like cells}$	4. Ciliated epithelium	N.
A. $a-2-M, b-3-N, c-4-K, d-$ B. $a-2-K, b-1-L, c-4-M, d-$ C. $a-4-M, b-3-L, c-1-K, d-$	3-N	

 $\mathsf{D}.\,a-2-M,b-3-N,c-4-L,d-1-K$

Answer: A

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9. The epithelium of of nephron in the kidney has microvilli.

A. PCT

B. DCT

C. HL

D. Collecting duct

Answer: A



10. Read the following statements and find out the correct statement(s).

- A. The squamous epithelium is involved in fuctions like forming a diffusion boundary.
- B. The cuboidal and columnar epithelium help in secretion and absorption.
- C. The function of ciliated epithelium is to move particles or mucus in

a specific direction over the epithelium

D. All of the above

Answer: D

11. Read the following statements and find out the incorrect statement.

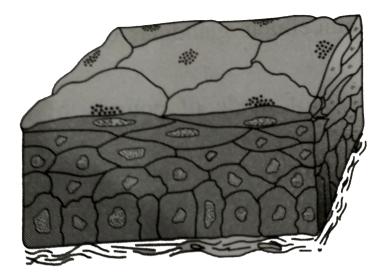
- A. The structures of the cells vary according to their function
- B. The epithelial cells are compactly packed with little intercellular matrix.
- C. Main function of compound epithelium is secretion and absorption.
- D. The inner lining of ducts of salivary glands and of pancreatic ducts

is covered by compound epithelium

Answer: C

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12. Read the following statements and find out how many of these are related to given figure.



- a. Multilayered epithelium
- b. Limited role in secretion and absorption.

c. Main function is to provide protection aganist chemical and mechanical stresses.

d. They cover the dry surface of skin, moist surface of buccal cavity and pharynx.

A. Four

B. Three

C. Two

D. One

Answer: A

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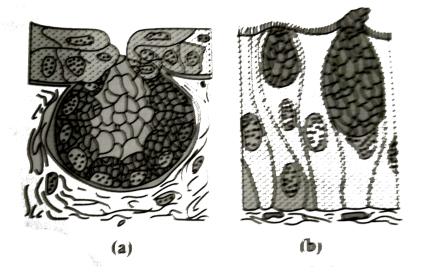
13. Some of the columnar or cuboidal cells get specialised for secretion and are called

- A. Ciliated epithelium and are of two types-ciliated columnar and ciliated cuboidal
- B. Compound epithelium and are of three types
- C. Glandular epithelium and are of two types-exocrine and endocrine
- D. Glandular epithelium and are of two types-unicellular and

multicellular

Answer: D

14. Recognise the figure and find out the correct labelling.



A. a'-unicellular glandular epithelium like goblet cells of alimentary canal 'b'-multicellular glandular epithelium like salivary gland
B. a'-unicellular glandular epithelium like salivary gland 'b'-multicellular glandular epithelium like goblet cells of alimentary canal
C. a'-multicellular glandular epithelium like salivary gland 'b'-unicellular glandular epithelium like goblet cells of alimentary canal
D. a'-multicellular glandular epithelium like goblet cells of alimentary cells
D. a'-multicellular glandular epithelium like goblet cells of alimentary cells

Answer: C

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15. On the basis of mode of pouring of their secretions, glands are divided

into

- A. Two categories-exocrine and endocrine glands
- B. Three categories-holocrine, merocrine and apocrine glands
- C. Two categories-exocrine and ductless glands
- D. Both A and C

Answer: D



16. There are.....types of cell junctions found in epithelium and nearly all

animal tissue which provide both structural and functional links between

its individual cells.

A. Two

B. Three

C. Four

D. Many

Answer: B

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17. Match the columns I and II, and choose the correct combination from

the options given.

ColumnI	ColumnII
a. A dhering	$1. \mathrm{Help} \ \mathrm{of} \ \mathrm{stop} \ \mathrm{substances} \ \mathrm{from} \ \mathrm{leaking} \ \mathrm{across} \ \mathrm{a} \ \mathrm{tissue}$
$b. \ { m Gap} \ { m Junctions}$	2.Perform comenting to keep neighbouring cells togeth
c. Tight Junctions	3. Facilitate the cells to communicate with each other

A. a - 3, b - 2, c - 1

B. a - 2, b - 3, c - 1

$$C. a - 2, b - 1, c - 3$$

D.
$$a-1,b-3,c-2$$

Answer: B

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18. In all connective tissues, except....the cells secrete fibres of structural proteins called collagen or elastin.

A. Blood

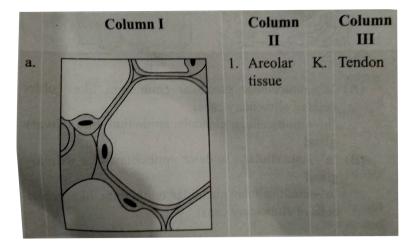
B. Bone

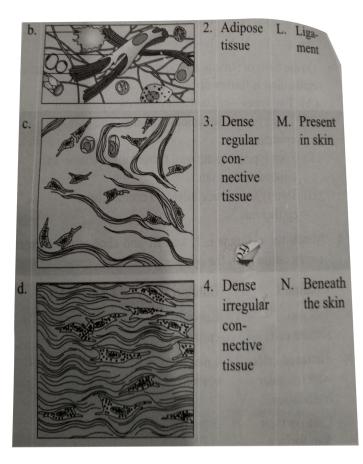
C. Cartilage

D. Areolar tissue

Answer: A

19. Match the columns I, II and III and choose the correct combination from the options given.





A.
$$a - 1 - M, b - 2 - N, c - 4 - K, d - 3 - I$$

B. $a - 2 - N, b - 1 - M, c - 3 - L, d - 2 - K$
C. $a - 1 - M, b - 2 - N, c - 3 - K, d - 2 - L$
D. $a - 2 - N, b - 1 - N, c - 4 - M, d - 3 - K$

Answer: D



20. Which of the following connective tissue often serves as a support

framework for epithelium?

A. Areolar tissue

B. Adipose tissue

C. Dense regular connective tissue

D. Dense irregular connective tissue

Answer: A



21. The excess of nutrients which are not used immediately are converted

into fats and stored in

A. Areolar tissue

B. Adipose tissue

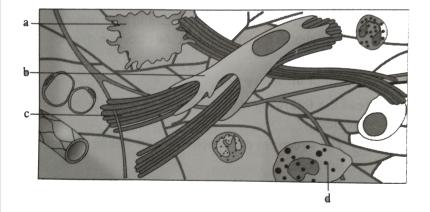
C. Dense regular connective tissue

D. Dense irregular connective tissue

Answer: B

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22. Recognize the figure and find out the correct matching.



A. a-Mast cell, d-Macrophage, b-Fibroblast, c-Collagen fibres

B. d-Mast cell, a-Macrophage, b-Fibroblast, c-Collagen fibres

C. d-Mast cell, a-Macrophage, c-Fibroblast, b-Collagen fibres

D. b-Mast cell, d-Macrophage, a-Fibroblast, c-Collagen fibres

Answer: B

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23. Which of the following connective tissue contains fibroblasts, macrophage and mast cells?

A. Areolar tissue

B. Adipose tissue

C. Dense regular connective tissue

D. Dense irregular connective tissue

Answer: A

24. Match the columns I and II and choose the correct combination from

the options given.

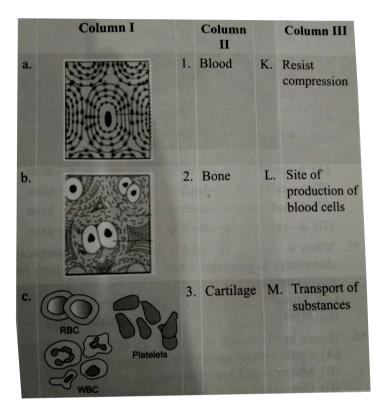
	ColumnI	ColumnII	
	a. Tendon	1. Loose connective tissue	
	b. Ligament	2. Dense regular connective tissue	
	c. Areolar tissue	3. Dense irregular connective tissue	
	d. Adipose tissue	4. Specialised connective tissue	
A. $a-2, b-1, c-4, d-3$			
	B.a-1,b-4,c-3,d-2		
	C. $a-2,b-2,c-3,d-1$		

D.
$$a-2, b-2, c-1, d-1$$

Answer: D

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25. Match the columns I, II and III and choose the correct combination from the options given.



A.
$$a - 3 - K$$
, $b - 2 - L$, $c - 1 - M$
B. $a - 2 - L$, $b - 3 - K$, $c - 1 - M$
C. $a - 3 - M$, $b - 1 - K$, $c - 2 - L$
D. $a - 3 - M$, $b - 1 - K$, $c - 2 - L$

Answer: B

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26. How many of the following statements are related to bone?

a. It is a specialised connective tissue having hard and pliable ground substance rich in calcium salts and collagen fibres which gives bone its strength.

b. It is the main tissue that provides structural frame to the body.

c. It supports and protects softer tissues and organs.

d. The bone cells, osteocytes are present in the spaces called lacunae.

e. They also interact with smooth muscles attached to them to bring about movements.

A. Two

B. Three

C. Four

D. Five

Answer: C



27. Cartilage is present

a. in the tip of nose and middle ear joints

b. between adjacent bones of vertebral column

c. between adjacent bones of limbs and hands in adults

A. a, b and c

B. a and b

C. b and c

D. a and c

Answer: C

28. Mucus, saliva, earwax, oil, milk and digestive enzymes are secreted by

A. Exocrine glands

B. Endocrine glands

C. Heterocrine glands

D. Compound glands

Answer: A

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29. Read the following statements and find out the incorrect statement.

A. Long bones of the legs, serve weight bearing funcitons

B. The intercellular material of cartilage is semi-fluid and pliable

C. The products of the exocrine glands are released through ducts or

tubes

D. Blood is a fluid connective tissue

Answer: B

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Section A Topicwise Questions Topic 2 Muscle Tissue And Neural Tissue

1. Each muscle is made of many long, cylindrical fibres arranged in parallel

arrays. These fibres are composed of numerous fine fibrils, called

A. Fascicles

B. Myofibrils

C. Myofilaments

D. Both B and C

Answer: D

2. Based on their location, muscles are classified into

A. Three types- skeletal, smooth and cardiac muscle

B. Three types- skeletal, visceral and cardiac muscle

C. Three types- voluntary, involuntary and cardiac muscle

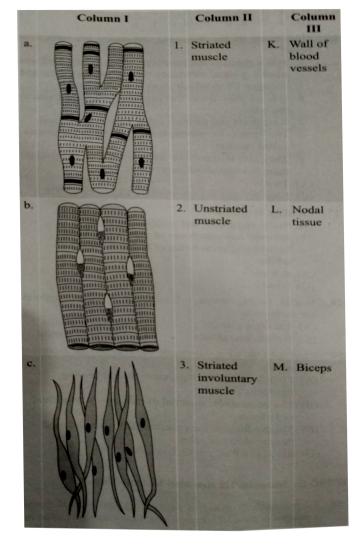
D. All of the above

Answer: A

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3. Match the columns I, II and III and choose the correct combination from

the options given.



A. a - 3 - L, b - 1 - K, c - 2 - MB. a - 1 - M, b - 2 - K, c - 3 - LC. a - 3 - l, b - 1 - M, c - 2 - KD. a - 1 - K, b - 3 - L, c - 2 - M

Answer: C



4. Fill in the blanks:

a. The...1...tissue is closely attached to skeletal bones.

b. The...2...fibres taper at both ends (fusiform).

c. The...3...fibres are found in wall of internal organs such as stomach and intestine.

d. Communication junctions or intercalated discs are found in...4....tissue.

A. 1 and 3-skeletal muscle, 2-smooth muscle, 4-cardiac muscle

B. 2 and 4-skeletal muscle, 3-smooth muscle, 1-cardiac muscle

C. 1-skeletal muscle, 2 and 3-smooth muscle, 4-cardiac muscle

D. 1 and 4-skeletal muscle, 3-smooth muscle, 4-cardiac muscle

Answer: C

5. Which of the following tissue exerts the greatest control over the body's responsiveness to changing conditions?

A. Epithelial tissue

B. Connective tissue

C. Muscular tissue

D. Neural tissue

Answer: D

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6. Neuroglial cells make up more than

A. One-third the volume of neural tissue in our body and, form and

protect the neurons.

B. One-half the volume of neural tissue in our body and, form and

support the neurons.

C. One-half the volume of neural tissue in our body and, protect and

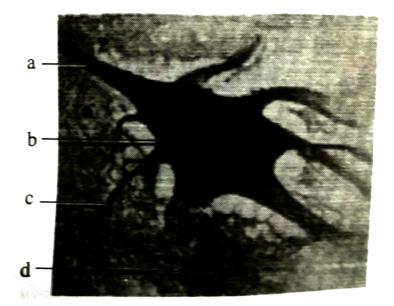
support neurons.

D. One-third the volume of neural tissue in our body and, protect and

support neurons.

Answer: C

7. Recognise the figure and find out the correct matching.



- A. b-cell body, c-dendrite, d-neuroglea, a-axon
- B. b-cell body, a-dendrite, d-neuroglea, c-axon
- C. d-cell body, c-dendrite, b-neuroglea, a-axon
- D. d-cell body, a-dendrite, b-neuroglea, c-axon

Answer: A

8. When a.....is suitably stimulated, an electrical disturbance is generated which swiftly travels along its plasma membrane.

A. Neuron

B. Muscle fibre

C. Myofibril

D. Intercalated disc

Answer: A

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9. Human heart consists of

A. Epithelial and connective tissues

B. Muscular and neural tissues

C. Connective and muscular tissues

D. Both A and B

Answer: D

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Section A Topicwise Questions Topic 3 Earthworm Morphology And Anatomy

1. Fill in the blanks:

a. In the gardens, the earthworm can be traced by their fecal deposits

b. The process of increasing fertility of soill by the earthworms is called...2...

c. The common..3...earthworms are Pheretima and Lumbrocus.

d. Anterior end of earthworm consists of the mouth and the...4.. which is sensory in function

A. 1-Worm castings, 2-Vermicomposting, 3-European, 4-Peristomium

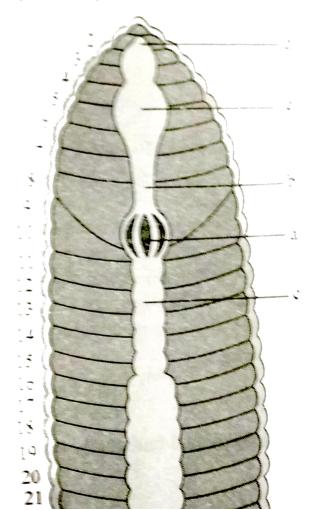
B. 1-Worm coasting, 2-Vermicomposting, 3-India, 4-Prostomium

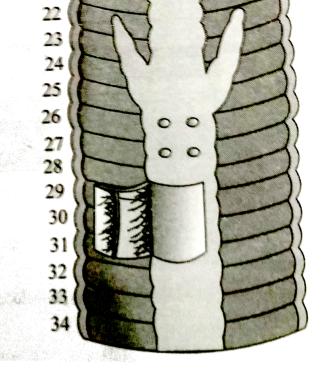
C. 1-Vermicomposting, 2-Worm castings, 3-Indian, 4-Prostomiu

Answer: B



2. Recognise the figure and find out the correct matching.





- A. a-stomach, c-mouth, d-oesophagus, e-gizzard, b-pharynx
- B. d-stomach, b-mouth, e-oesophagus, c-gizzard, a-pharynx
- C. c-stomach, d-mouth, b-oesophagus, a-gizzard, e-pharynx
- D. b-stomach, a-mouth, e-oesophagus, c-gizzard, d-pharynx

Answer: C



3. The dorsal surface and ventral surface of the body of earthworm is marked by

A. A dark median mid dorsal line (dorsal blood vessel and presence of

genital pores, respectively

B. The presence of genital openings and a dark mid ventral line

(ventral blood vessel), respectively

C. A dark mid dorsal line and a dark mid ventral line, respectively

D. None of the above

Answer: A

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4. Match the columns I, II and III and choose the correct combination from the options given.

ColumnI	ColumnII	ColumnIII			
a. Male genital pore (s)	1.10^{th} and 11^{th} segment	K. single			
$b. { m Female \ genital \ pore}(s)$	$2.14^{th} { m segment}$	$L.1\mathrm{Pair}$			
c. Testes	$3.18^{th} { m segment}$	M.2Pair			
b. Ovaries	4.12-13 intersegmental septum	N. 4Pair			
A. $a-2-K, b-3-L, c-1-N, d-4-M$					

 ${\sf B}.\,a-3-L,b-2-K,c-1-M,d-4-L$

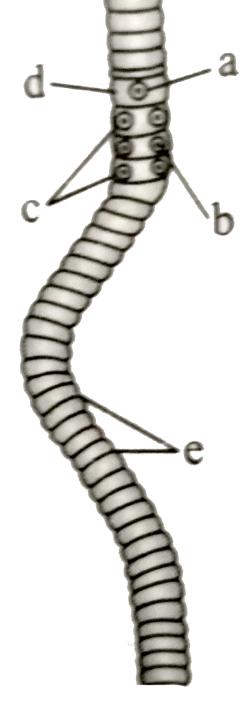
C. a - 3 - K, b - 2 - L, c - 1 - M, d - 4 - L

D. a - 3 - L, b - 2 - K, c - 4 - N, d - 1 - M

Answer: B

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A. a-male genital aperture, b-female genital aperture, c-clitellum, e-

genital papillae, d-annuli

B. b-male genital aperture, a-female genital aperture, d-clitellum, c-

genital papillae, e-annuli

C. c-male genital aperture, b-female genital aperture, d-clitellum, a-

genital papillae, e-annuli

D. b-male genital aperture, c-female genital aperture, d-clitellum, a-

genital papillae, e-annuli

Answer: B

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6. Read the following statements and find out the incorrect statement.

A. Setae are present in all body segments except first, last and

clitellum.

B. Nephridia are present in all body segments except first two

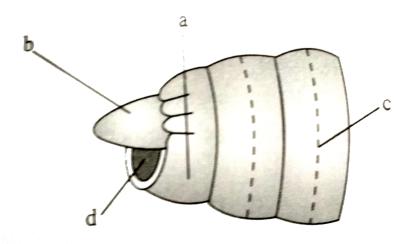
segments of body.

- C. Intestine is present only in the postclitellar segments
- D. The epidermis of earthworm is made up of a single layer of

columnar epithelial

Answer: C

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A. a-Prostomium, b-Peristomium, d-mouth opening, c-ring of setae

B. b-Prostomium, d-Peristomium, c-mouth opening, a-ring of setae

C. a-Prostomium, c-Peristomium, d-mouth opening, b-ring of setae

D. b-Prostomium, a-Peristomium, d-mouth opening, c-ring of setae

Answer: D



8. The principal role of the setae in earthworm is

A. Excretion

B. Nutrition

C. Respiration

D. Locomotion

Answer: D

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9. The correct sequence of different layers in the body wall of the earthworm from outer to inner side is

A. Cuticle, epidermis, circular muscle layer, longitudinal muscle layer and coelomic epithelium

B. Cuticle, epidermis, longitudinal muscle layer, circular muscle layer

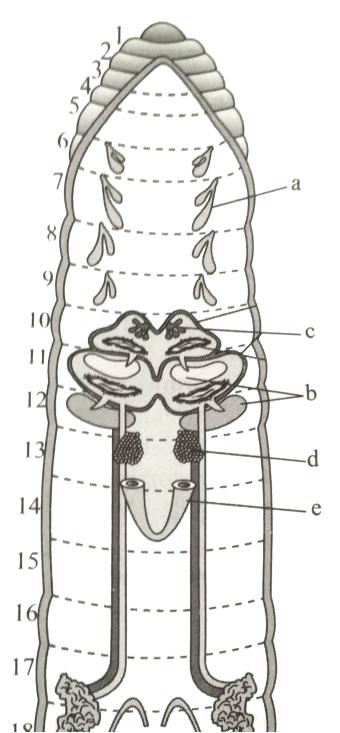
and coelomic epithelium

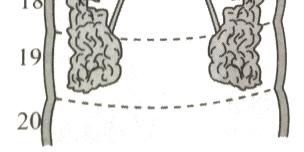
- C. Coelomic epithelium, epidermis, longitudinal muscle layer and cuticle
- D. Cuticle, epidermis, coelomic epithelium, circular muscle layer and

longitudinal muscle layer

Answer: A

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- A. b-seminal vesicle, d-ovary, a-spermathecae, e-ovarian funnel, c-
- B. c-seminal vesicle, a-ovary, d-spermathecae, b-ovarian funnel, espermiducal funnels
- C. a-seminal vesicle, c-ovary, e-spermathecae, b-ovarian funnel, d-

spermiducal funnels

D. b-seminal vesicles, d-ovary, c-spermathecae, a-ovarian funnel, e-

spermiducal funnels

Answer: A

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11. The shape of setae is

A. J-shaped

B. C-shaped

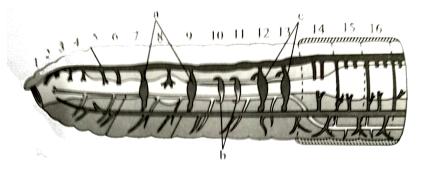
C. S-shaped

D. U-shaped

Answer: C

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12. Recognise the figure and find out the correct matching.



A. a-anterior loops, b-laternal hearts, c-lateral oesophageal hearts

B. b-anerior loops, c-lateral hearts, a-lateral oesophageal hearts

C. c-anterior loops, a-lateral hearts, b-lateral oesophageal hearts

D. b-anterior loops, a-lateral hearts, c-lateral oesophageal hearts

Answer: D

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13. Read the following statements and find out the incorrect statement about earthworm.

A. The alimentary canal is a straight tube and runs between first and

last segment of the body

B. The nervous system is basically represented by ganglia arranged

segmentwise on the ventral paired nerve cord

C. Blood glands produce blood cells and haemoglobin which is

dissolved in blood plasma

D. The cerebral ganglia alongwith other nerves in the ring integrate

motor input as well as command muscular responses of the body

Answer: D

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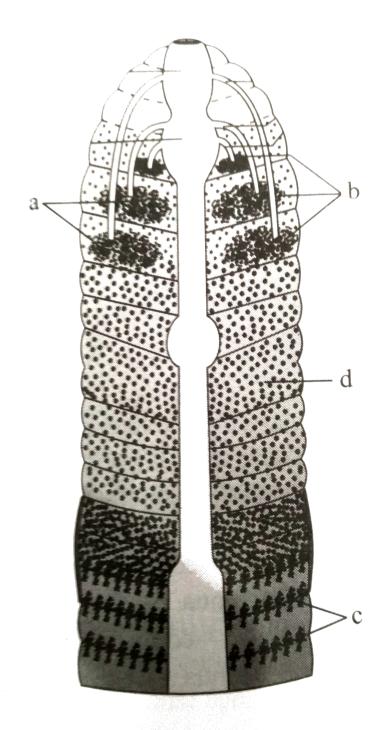
14. Match the columns I and II, and choose the correct combination from

the options given

	ColumnI	Column II		
	$a. \operatorname{Gizzard}$	J.9-14		
	b. Intestine	K.1-3		
	c. Stomach	L.8-9		
	d. Buccal cavity	M.4		
	e. Oesophagus	$N.15-\mathrm{last}$		
	$f. \ { m Pharynx}$	Q.5-7		
A. $a-Q,b-J,c-N,d-K,e-M,f-L$				
B.a-L,b-N,c-J,d-K,e-Q,f-M				
	C.a-L,b-L	N, c-Q, d-M, e-Q, f-J		
	D. $a-L,b-L$	N, c-J, d-M, e-K, f-Q		

Answer: B





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A. a-blood glands, d-septal nephridia, c-integumentary nephirid, a-

pharyngeal nephridia

B. b-blood glands, c-septal nephridia, d-integumentary nephridia, a-

pharyngeal nephdridia

C. b-blood glands, a-septal nephridia, c-integummentary nephridia, d-

pharyngeal nephridia

D. a-blood glands, c-septal nephridia, d-integumentary nephridia, b-

pharyngeal nephridia

Answer: D

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16. Which of the following part of alimentary canal of earthworm helps is

grinding the soil particle and decaying leaves?

A. Pharynx

B. Gizzard

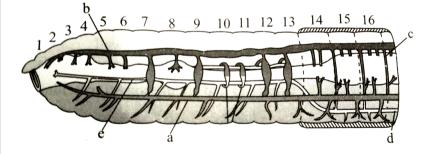
C. Stomach

D. Typhlosole

Answer: B

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17. Recognise the figure and find out the correct matching.



A. b-dorsal vessel, a-ventral vessel, c-commissural vessel, e-lateral

oesophageal vessel, d-subneural vessel

B. b-dorsal vessel, a-ventral vessel, c-commissural vessel, d-lateral

oesophageal vessel, e-subneural vessel

C. b-dorsal vessel, a-ventral vessel, d-commissural vessel, e-lateral

oesophageal vessel, c-subneural vessel

D. a-dorsal vessel, b-ventral vessel, e-commissural vessel, c-lateral

oesophageal vessel, d-subneural vessel

Answer: A

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- 18. Fill in the blanks:
- a. A pair of short and conical ...K.. caecae project from the intestine on
- the...L...segment.
- b. Typhlosole is the internal median fold of ...M..wall of intestine.
- c. Earthworm..N..specialised breathing devices.
- d. The nerve cord in the anterior region $\left(3^{rd} ext{ and } 4^{th} ext{ segment}
 ight)$ bifurcates,
- laterally encircling the...Q...and joins the cerebral ganglia.

A. K-Gastric, $L-26^{th}$ to 35^{th} , M-Ventral, N-have, Q-Buccal cavity

- B. K-Hepatic, $L-26^{th}$, M-Dorsal, N-Lack, Q-Oesophagus
- C. K-Intestinal, $L 26^{th}$, M-Dorsal, N-Lack, Q-Pharynx
- D. K-Hepatic, $L 26^{th}$ to 35^{th} , M-Ventral, N-Have, Q-Pharynx

Answer: C

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19. Match the columns I, II and III and choose the correct combination from the options given.

ColumnI	ColumnII	Column III
a. Intergumentary nephridia	$K.4^{th}\mathrm{to6}^{th}\mathrm{segment}$	1. Exonephric
b. Septal nephridia	$L.15^{th}$ to last segment	2. Enteronephric
c. Pharyngeal nephridia	$M.3^{rd} { m to \ last \ segment}$	

A.
$$a - M - 2, b - L - 2, c - K - 1$$

B.
$$a - K - 1, b - M - 1, c - L - 2$$

 $\mathsf{C}.\,a-M-1,b-L-2,c-K-2$

D.
$$a - L - 2, b - L - 1, c - M - 1$$

Answer: C



20. A nephridium starts out as a funnel that collects excess fluid from

A. Intestinal lumen

B. Body wall

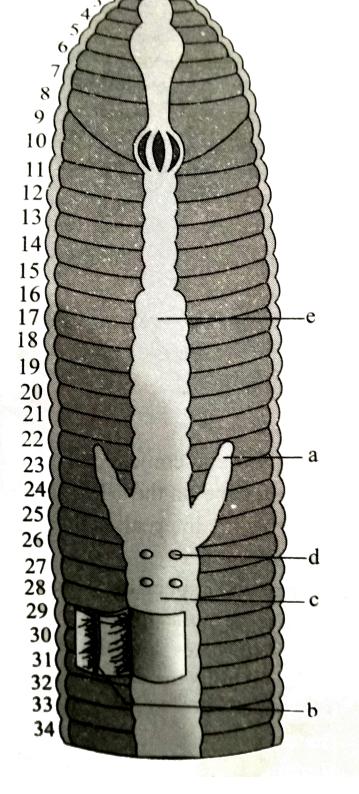
C. Coelomic chamber

D. Calciferous glands

Answer: C

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A. b-typhlosole, c-pre-typhlosolar part, e-typhlosolar part, d-intestinal

caecum, a -lymph gland

B. e-typhlosole, b-pre-typhlosolar part,c-typhlosolar part,d-intestinal

caecum, a-lymph gland

C. c-typhlosole, b-pre-typhlosolar part, e-typhlosolar part, a-intestinal

caecum, d-lymph gland

D. b-typhlosole, e-pre-typhlosolar part, c-typhlosolar part, a-intestinal

caecum, d-lymph gland

Answer: D

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22. In earthworm, accessory gland are present

A. One pair each in the 17^{th} and 19^{th} segments

B. Two pairs each in the 17^{th} and 19^{th} segments

C. One pair each in the 10^{th} and 11^{th} segments

D. Two pairs each in the 12^{th} and 13^{th} segments

Answer: A

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23. In earthworm, fertilisation and development occurs within

A. Cocoons

B. Soil

C. Clitellum

D. Spermathecae

Answer: A

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24. Fill in the blanks: The cocoon holds worm embroyos. After about...a...weeks, each cocoon produces ...baby worms with an average of...c...

A.
$$a - 2, b - 3, c - 4$$

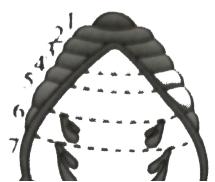
B. a - 2, b - 4, c - 3

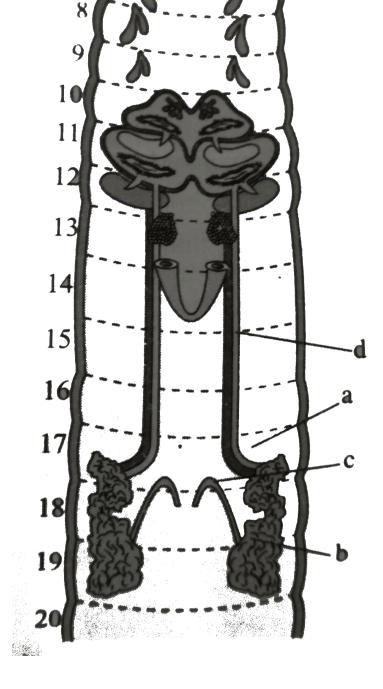
C.
$$a-3,b-2$$
 to $20,c-4$

D. a-2, b-2 to 20, c-4

Answer: C

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A. a-prostate gland, c-common prostatic and spermatic duct, d-vasa

deferentia, b-accessory gland

B. b-prostate gland, c-common prostatic and spermatic duct, d-vasa

deferentia, a-accessory gland

C. a-prostate gland, d-common prostatic and spermatic duct, c-vasa

deferentia, b-accessory gland

D. b-prostate gland, d-common prostatic and spermatic duct, c-vasa

deerentia, a-accessory gland

Answer: B

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26. In Earthworm development is

A. Direct i.e., there is no larve formed

B. Indirect, i.e., there is no larve formed

C. Direct, i.e., there are many larval stages

D. Indirect, i.e., there are many larval stages

Answer: A



27. Read the following statements and find out the correct statement(s).

A. Earthworm is hermaphrodite

B. Earthworm is used as bait in game fishing

C. Packets of sperms are called spermatophores

D. All of the above

Answer: D

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Section A Topicwise Questions Topic 4 Cockroach Morphology And Anatomy

1. In Peripleneta americana, the wings extends beyond the tip of the abdomen in

A. Males

B. Females

C. Both male and females

D. None of the above

Answer: A

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2. Fill in the blanks: The entire body is covered by a hard chitinous exoskeleton. In each segment, exoskeleton has hardened plates calleda...., ...b... dorsally andc...ventrally) that are joined to each other by a thin fexible....d....

A. a-sternites, b-sclerites, c-tergites, d-arthrodial membrane

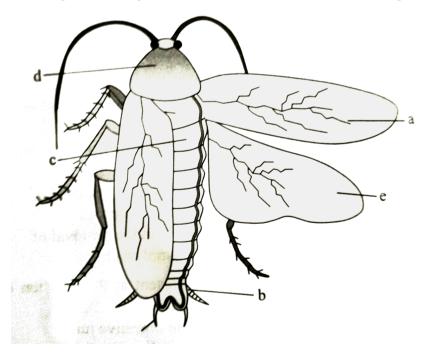
B. a-sclerites, b-tergites, c-sternites, d-articular membrane

C. a-tergites, b-sternites, c-sclerties, d-articular membrane

D. a-sclerties, b-sternites, c-tergites, d-articular membrane

Answer: B

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A. a-forewing, b-anal style, c-mesothorax, d-prothorax, e-tegmina

B. a-forewing, b-anal cerci, c-mesothorax, d-pronotum, e-hind wing

C. a-tegmina, b-anal cerci, c-mesothorax, d-pronotum, e-hind wing

D. a-tegmina, b-anal style, c-mesothorax, d-prothorax, e-fore wing

Answer: C



4. Head of cockroach is formed by the fusion of

A. Six segments and triangular in shape

B. Ten segments and trigonal in shape

C. Eleven segments and rectangular in shape

D. Three segments and tetragonal in shape

Answer: A

5. The head shows great mobility in all direction due to

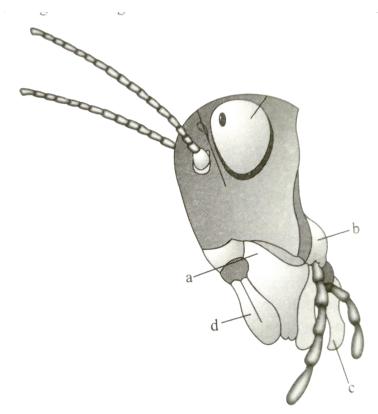
A. Flexible head capsule which also bears compound eyes

- B. Flexible neck which is an extension of prothorax
- C. Flexible neck which is an extension of mesothorax
- D. Flexible neck which is an extension of methathorx

Answer: B

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6. Recognise the figure and find out the correct matching.



A. c-maxilla, d-mandible, a-labium, b-labrum

B. d-maxilla, c-mandible, b-labium, a-labrum

C. b-maxilla, b-mandible, c-labium, d-labrum

D. c-maxilla, b-mandible, d-labium, c-labrum

Answer: C



7. The mouth parts of cockroach are

A. Piercing and sucking type

B. Biting and cutting type

C. Chewing and biting type

D. Siphoning and sponging type

Answer: C



8. In cockroach, walking legs arises from

A. Prothorax and mesothorax and are two pairs

B. Mesothorax and methorax and are two pairs

C. All the throracic segments and are three pairs

D. First three abdominal segments and are three pairs

Answer: C



9. In cockroach, wings arises from

A. Prothorax and mesothorax and are two pairs

B. Mesothorax and metathorax and are two pairs

C. All the throracic segments and are three pairs

D. First three abdominal segments and are three pairs

Answer: B



10. The abdomen in male and females consists of

- A. 10 and 11 segments, respectively
- B. 9 and 10 segments, respectively
- C. 10 and 10 segments, respectively
- D. 10 and 9 segments, respectively

Answer: C

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11. Which of the following is incorrect for forewings of cockroach?

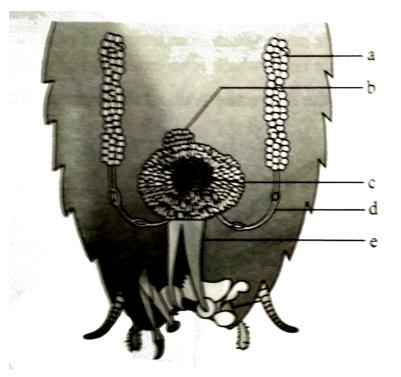
A. Also called mesothoracic wings or tegmina

- B. Opaque, dark and leathery
- C. Cover the hind wings when at rest
- D. Used in flight

Answer: D



12. Recognise the figure and find out the correct matching.



A. c-seminal vesicle, e-ejaculatory duct, d-vas deferens, a-testis, bphallic gland

B. e-seminal vesicle, c-ejaculatory duct, a-vas deferes, b-testis, d-phallic

gland

C. a-seminal vesicle, d-ejaculatory duct, b-vas deferens, e-testis, c-

phallic gland

D. b-seminal vesicle, a-ejaculatory duct, c-vas deferens, e-testis, c-

phallic gland

Answer: A



13. Brood pouch is formed in female Cockroach by

A. $7^{th}, 8^{th}$ and 9^{th} sterna

B. 7^{th} sternum and 8^{th} and 9^{th} terga

C. 9^{th} and 10^{th} terga, and 9^{th} sternum

D. 9^{th} and 10^{th} sterna, and 9^{th} tergum

Answer: A

14. Male genital aperture of earthworms is located in the segment

A.
$$7^{th},\,8^{th}$$
 and 9^{th} sterna

B. 7^{th} sternum and 8^{th} and 9^{th} terga

C. 9^{th} and 10^{th} terga, and 9^{th} sternum

D. 9^{th} and 10^{th} sterna, and 9^{th} tergum

Answer: C

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15. Read the following statements and find out the incorrect statement.

A. The blood (haemolymph) is composed of colourless plasma and

haemocytes.

B. Heart of cockroach consists of elongated muscules tube lying along

mid ventral line of horax and abdomen

C. The hindgut is broader than midgut and differentiated into ileum,

colon and rectum.

D. Both gizzard and mandible helps in grinding the food particles.

Answer: B

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16. In cockroach, labium, labrum and hypopharynx are commonly called

A. Upper lip, lower lio and crop, respectively

B. Upper lip, lower lip and tongue, respectively

C. Lower lip, upper lip and tongue, respectively

D. Lower lip, upper lip and jaw, respectively

Answer: C



17. Recognise the figure and find out the correct matching.



A. e-crop, a-oesophagus, c-pharynx, d-gizzard, b-salivary gland

B. d-crop, c-oesophagus, b-pharynx, e-gizzard, a-salivary gland

C. c-crop, b-oesophagus, e-pharynx, d-gizzard, a-salivary gland

D. d-crop, c-oesophagus, e-pharynx, b-gizzard, a-salivary gland

Answer: B

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18. Malpighian tubules are present at the junction of

- A. Foregut and midgut, and help in the secretion of digestive enzymes
- B. Midgut and hindgut, and help in the grinding the food particles
- C. Foregut and midgut, and help in the removal of excretory products

from hemolymph

D. Midgut and hindgut, and help in the removal of excretory products

from hemolymph

Answer: D

19. A ring of 6-8 blind tubules present at the junction of foregut and midgut and are called

A. Gastric caecae which secrete digestive juice

B. Hepatic caecae which secrete digestive juice

C. Intestinal caecae which help in grinding the food

D. Both A and B

Answer: D

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20. Which part of alimentary canal of cockroach has an outer layer of thick circular muscles and inner cuticle forming six highly chitinous plates called teeth?

A. Gizzard

B. Crop

C. Proventriculus

D. Both A and C

Answer: D

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21. The correct sequence of the parts of alimentary canal is cockroach.

A. Mouth ightarrow pharynx ightarrow oesophagus ightarrow crop ightarrow gizzard ightarrow

midgut \rightarrow caecum \rightarrow colon \rightarrow rectum \rightarrow anus

B. Mouth ightarrow pharynx ightarrow oesophagus ightarrow gizzard ightarrow crop ightarrow

midgut \rightarrow ileum \rightarrow colon \rightarrow rectum \rightarrow anus

C. Mouth \rightarrow pharynx \rightarrow oesophagus \rightarrow crop \rightarrow proventriculus

 $\rightarrow \mbox{ midgut } \rightarrow \mbox{ ileum } \rightarrow \mbox{ colon } \rightarrow \mbox{ rectum } \rightarrow \mbox{ anus }$

D. Mouth \rightarrow pharynx \rightarrow oesophagus \rightarrow stomach \rightarrow crop \rightarrow

 $\mathsf{midgut}\ \rightarrow\ \mathsf{hindgut}\ \rightarrow\ \mathsf{anus}$

Answer: C

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22. Malpighian tubules are

A. 100-120 yellow coloured filamentous structure

B. 100-120 brown coloured filamentous structure

C. 100-150 yellow coloured filamentous structure

D. 100-150 yellow coloured chitinous structure

Answer: C

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23. The 10^{th} segment bears a pair of jointed filamentous structure called

A. Anal cerci, in both sexes

B. Anal style, in both sexes

C. Anal cerci, in male cockroach only

D. Anal style, in male cockroach only

Answer: A

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24. Sexual dimorphism in cockroach is shown by

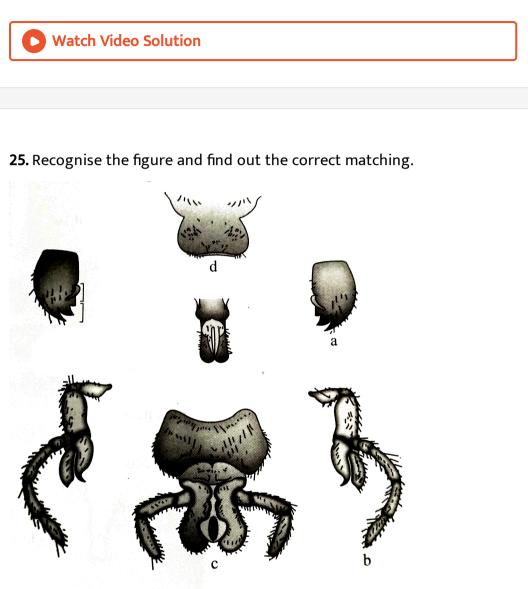
A. Anal cerci which are present in males only

B. Anal styles which are present in males only

C. Anal cerci which are present in females only

D. Anal styles which are present in females only

Answer: B



A. c-maxilla, d-mandible, a-labium, b-labrum

B. d-maxilla, c-mandible, b-labium, a-labrum

C. b-maxilla, b-mandible, c-labium, d-labrum

D. c-maxilla, b-mandible, d-labium, c-labrum

Answer: C

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26. In cockroaches, the respiratory system consists of a network of trachea that open outside through small holes hat are present on lateral side of the body are called

A. Tracheoles and are of 9 pairs

B. Spiracles and are of 10 pairs

C. Sphincters and are of 8 pairs

D. Ostia and are of 13 pairs

Answer: B

27. Exchange of gases takes place at the tracheoles by

A. Diffusion

B. Active transport

C. Imbibition

D. Osmosis

Answer: A

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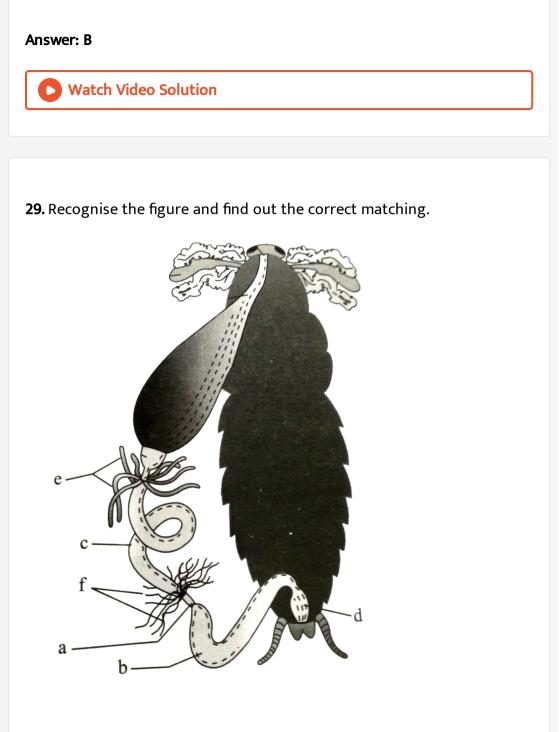
28. The opening of the spiracles is regulated by the

A. Ostia

B. Sphincters

C. Values

D. Sinuses



A. a-midgut, c-ileum, e-malpighian tubules, f-hepatic caecae, b-rectum,

d-colon

- B. a-midgut, c-ileum, f-malpighian tubules, e-hepatic caecae, b-rectu, dcolon
- C. c-midgut, a-ileum, e-malpighian tubules, f-hepatic caecae, d-rectum,

b-colon

D. c-midgut, a-ileum, f-malpighian tubules, e-hepatic caecae, d-rectum,

b-colon

Answer: D

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30. Which is incorrect about cockroach?

A. The anterior part of female genital pouch contains female

gonopore, spermathacal pores and collaterial glands

B. Male genital pouch contains ventral anus, dorsal male genital pore

and gonapophysis.

C. The heart is differentiated into funnel shaped chambers with ostia

on either side

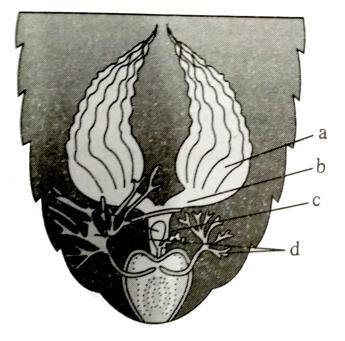
D. Blood vascular system is open type in which blood from sinuses

enter heart through ostia and pumped anteriorly to sinuses again.

Answer: B

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31. Recognise the figure and find out the correct matching.



- A. a-ovary, b-oviduct, c-vagina, d-collaterial glands
- B. b-ovary, a-oviduct, d-vagina, c-collaterial glands
- C. c-ovary, d-oviduct, b-vagina, a-collaterial glands
- D. d-ovary, c-oviduct, a-vagina, b-collaterial glands

Answer: A

32. Match the columns I, II and III and choose the correct combination from the options gives.

ColumnI	Column II	ColumnIII
a. Testes	$K.2^{nd}-6^{th} { m segments}$	$w.1 \mathrm{pair}$
b. Ovaries	$L.4^{th}-6^{th}{ m segments}$	$x.2 \mathrm{pairs}$
c. Spermathecae	$M.6^{th}-7^{th}{ m segments}$	$y.4 ext{pairs}$
d. Mushroom shaped gland(s)	$N.6^{th} { m segments}$	z. single
c. Spermathecae	$M.6^{th}-7^{th}{ m segments}$	y.4 pairs

A. a-L-y, b-K-x, c-M-z, d-N-w

B.
$$a-L-w,b-K-w,c-N-w,d-M-z$$

C.
$$a-K-x, b-L-w, x-N-y, d-M-z$$

D.
$$a-N-x, b-M-w, c-K-z, d-L-y$$

Answer: B

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33. In female cockroach, how many ovarian tubules or ovarioles are present ?

A. 8

B. 16

C. 14 - 16

 $\mathsf{D.}\,9-10$

Answer: B



34. In cockroach, brain is present in head region and represented by

A. Supra-pharyngeal ganglion

B. Supra-oesophageal ganglion

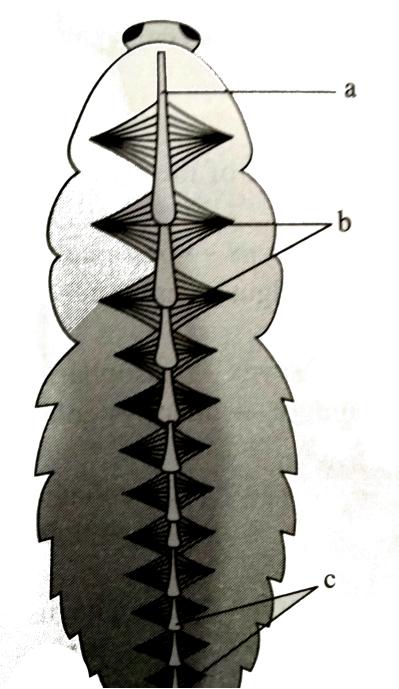
C. Gastro-oesophageal ganglion

D. Cerebral ganglion

Answer: B









A. a-dorsal blood vessel, b-chambers of hear, c-alary muscles

B. a-dorsal aorta, b-alary muscles, c-chambers of heart

C. a-anterior aorta, b-alary muscles, c-chambers of heart

D. a-posterior aorta, b-alary muscles, c-chambers of heart

Answer: C

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36. With the help of several ommatidia, a cockroach can receive several images of an object. This kind of vision is called

A. Nocturnal vision, being common during night

B. Mosaic vision, with more sensitivity but less resolution

C. Mosaic vision, with more resolution but less sensitivity

D. Nocturnal vision, with more sensitivity and more resolution

Answer: B

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37. Read the following statements and find out the incorrect statement.

A. Mosaic vision is common during night hence called nocturnal vision

B. In cockroach, brain supplies nerves to antennae and compound

eyes

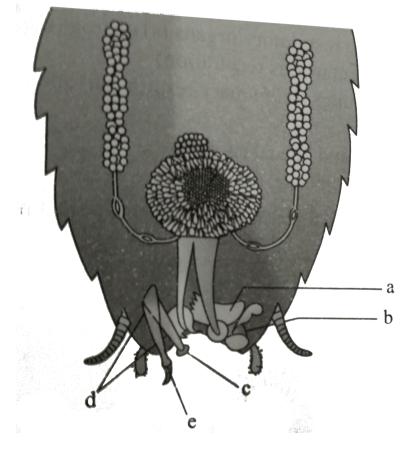
C. Fat body, hephrocytes and urecose glands helps in excretion in cockroach

D. Male cockroach bears one pair of collaterial glands which functions

as accessory reproductive glands

Answer: D

38. Recognise the figure and find out the correct matching.



A. a-ventral phallomere, b-right phallomere, e-left phallomere, c-

titillator, d-pseudopenis

B. b-ventral phallomere, a-right phallomere, d-left phallomere, e-

titillator, c-pseudopenis

C. c-ventral phallomere, e-right phallomere, b-left phallomere, d-

titillator, a-pseudopenis

D. d-ventral phallomere, c-right phallomere, a-left phallomere, b-

titilatore, e-pseudopenis

Answer: B

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- 39. In male cockroach, the external genitalia is represented by
 - A. Three phallomeres-right, left and dorsal
 - B. Three gonapophyes-right, left and ventral
 - C. Three phallomeres-right, left and lateral
 - D. Chitinous symmetrical structures

Answer: C



40. On a average, female cockroach produces...a...oothecae, each containing..b....eggs. The nymph grows by molting about...c...times to reach the adult form

A. a-9 to 10, b-14 to 16, c-13

B. a-14 to 16, b-9 to 10, c-13

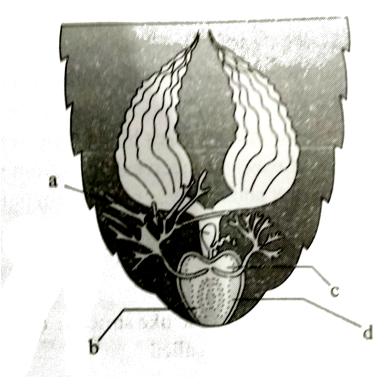
C. a-9 to 10, b-15 to 40, c-10

D. a-2 to 20, b-14 to 16, c-13

Answer: A



41. Recognise the figure and find out the correct matching.



A. b-vestibulum, a-genital chamber, c-spermathecae, d-gonapophyes

- B. a-vestibulum, b-genital chamber, d-spermathecae, c-gonapophyes
- C. d-vestibulum, c-genital chamber, a-spermathecae, b-gonapophyes
- D. c-vestibulum, d-genital chamber, b-spermathecae, a-gonapophyes

Answer: C

- **42.** Read the followig statements and find out the incorrect statement.
 - A. The next to last nymphal stage has wing pads but only adult

cockroaches have wings

B. Many species of cockroaches are wild and are of no economic

importance

C. They can transmit a variety of bacterial diseases by contaminating

food material

D. None of the above

Answer: D



Section A Topicwise Questions Topic 5 Frogs Morphology And Anatomy

1. Frogs have the ability to change the colour to hide them from their enemies (camouflage). This protective coloration is called

A. Aestivation

B. Concealment

C. Mimicry

D. Hibernation

Answer: C

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2. During the peak summer and winter the frogs take shelter in deep burrows to protect them from extreme heat and cold. This is called as

A. Summer sleep (aestivation) and winter sleep (hibernation)

B. Summer sleep (hibernation) and winter sleep (aestivation)

C. Summer sleep (diapause) and winter sleep (suspend)

D. Summer sleep (dormancy) and winter sleep (diapause)

Answer: A

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3. Read the following statements and find out the incorrect statement about frog.

- A. Frog never drinks water
- B. In frog, neck and tail are absent

C. The duodenum receives bile from gall bladder and pancreatic juices

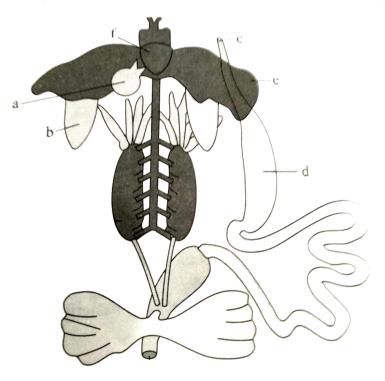
from the pancreas through the hepato-pancreatic duct

D. Eyes of frog are covered by nictiating membrane that protects them

while in water

Answer: C





A. d-liver, a-heart, c-lung, b-oesophagus, f-gall bladder, e-stomach
B. e-liver, f-heart, b-lung, c-oesophagus, a-gall bladder, d-stomach
C. e-liver, f-heart, a-lung, c-oesophagus, b-gall bladder, d-stomach
D. e-liver, f-heat, b-lung, d-oesophagus, a-gall bladder, c-stomach

- 5. In frogs, sexual dimorphism is shown by
 - A. Presence of sound producing vocal sacs in male frogs which are

absent in female frogs

B. Male frogs have a copulatory pad on the first digit of the hind limbs

which are absent in female frogs

- C. Both A and B
- D. None of the above

Answer: A



6. In frog, the duodenum receives bile from gall bladder and pancreatic

juices from the pancreas through a

A. Common bile duct

B. Hepato-pancreatic duct

C. Cystic duct

D. Hepatic duct

Answer: A

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7. Read the following statements and find out the incorrect statement about frogs.

A. Frog respire on land and in water by two different methods

B. Liver secrets bile that is stored in the gall bladder

C. Three chambered heart is situated in the upper part of body cavity

D. RBCs are enucleated and contain red coloured pigment called

haemoglobin

Answer: D Watch Video Solution 8. In water, the aquatic respiratory organ(s) of frog is/are A. Skin (cutaneous respiration) B. Skin, lungs (pulmonary respiration) and buccal cavity C. Lungs and buccal cavity D. Skin and buccal cavity Answer: A Watch Video Solution

9. On land, the respiratory organ(s) of frog is/are

A. Skin (cutaneous respiration)

B. Skin, lungs (pulmonary respiration) and buccal cavity

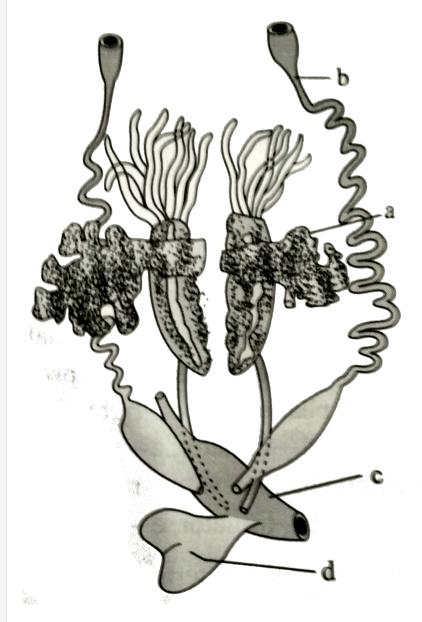
C. Lungs and buccal cavity

D. Skin and buccal cavity

Answer: B

O Watch Video Solution

10. Recognise the figure and find out the correct matching.



A. a-cloaca, b-ovary, d-oviduct, c-urinary bladder

B. c-cloaca, a-ovary, b-oviduct, d-urinary bladder

C. b-cloaca, d-ovary, c-oviduct, a-urinary bladder

D. d-cloaca, c-ovary, a-oviduct, b-urinary bladder

Answer: B

Watch Video Solution

11. During aestivation and hibernation in frog, gaseous exchange takes place through

- A. Skin (cutaneous respiration)
- B. Skin, lungs (pulmonary respiration) and buccal cavity
- C. Lungs and buccal cavity
- D. Skin and buccal cavity

Answer: A

12. A triangular structure that joins the right atrium of heart in frog is called

A. Sinus venosus and receives blood from vena cava

B. Conus arteriosus and receives blood from vena cava

C. Sinus venosus and receives blood from pulmonary artery

D. Conus arterious and receives blood from pulmonary vein

Answer: A

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13. The ventricle opens into a sac like structure on the ventral side of the

heart of frog is called

A. Conus areriosus

B. Sinus venosus

C. Dorsal aorta

D. Renal portal vein

Answer: A

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14. Special venous connection between liver and intestine as well as the kidney and lower parts of body are present in frog that is called

A. Hepatic poral system

B. Renal portal system

C. Hepatic portal system and renal portal system, respectively

D. Renal portal system and hepatic portal system respectively

Answer: C

15. Read the following statements and find out the incorrect statement about frog

- A. The blood cells are RBC , WBC and platelets
- B. The lymph is different from blood as it lacks few proteins and RBCs
- C. Kidneys are bean shaped structures, situated a little anteriorly in

the body cavity on both sides of vertebral column

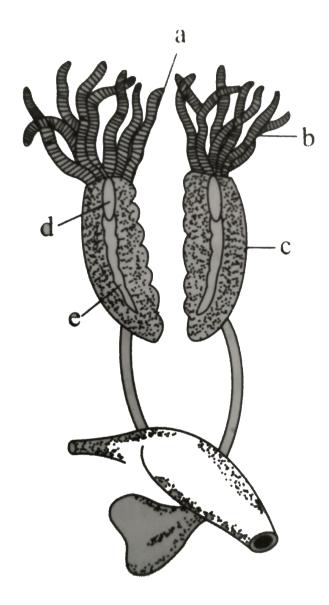
D. In male frogs, ureters acts as urinogenital duct which opens into

cloaca

Answer: C



16. Recognise the figure and find out the correct matching.



A. c-kidney, d-testis, b-fat bodies, e-adrenal gland, a-vasa efferentia

B. e-kidney, d-testis, b-fat bodies, k-adrenal gland, a-vasa efferentia

C. c-kidney, e-testis, b-fat bodies, d-adrenal gland, a-vasa efferentia

D. c-kidney, d-testis, a-fat bodies, e-adrenal gland, b-vasa efferentia

Answer: A

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17. Fill in the blanks:

a. In female frogs, the ureters and oviduct open...1...into the cloaca.

b. The thin walled urinary bladder is present ventral to ...2...which also opens in the cloaca.

c. Frogs is ...3...animal.

d. In frog, there are ..4...of cranial nerves arising from brain.

A. a-collectively, b-kidney, c-uricotelic, d-ten pairs

B. a-separately, b-rectum, c-ureotelic, d-twelve pairs

C. a-separately, b-rectum, c-ureotelic, d-ten pairs

D. a-collectively, b-rectum, c-ureotelic, d-twelve pairs

Answer: C



18. The nervous system of frog is organised ino

A. Central nervous system and peripheral nervous system

B. Central nervous system and autonomic nervous system

C. Central nervous system, peripheral nervous system and autonomic

nervous system

D. Brain and spinal cord

Answer: C

19. Central nervous system is divided in frog in

- A. Brain and spinal cord
- B. Cranial and spinal nerves
- C. Sympathetic and parasympathetic
- D. Forebrain, midbrain and hindbrain

Answer: A

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20. Autonomic nervous system in frog is divided into

- A. Brain and spinal cord
- B. Cranial and spinal nerves
- C. Sympathetic and parasympathetic
- D. Forebrain, midbrain and hindbrain

Answer: C

Watch Video Solution

Section B Assertion Reasoning Questions

1. Assertion: Epithelial tissue provides a covering or a lining for some parts of the body.

Reason: Epithelial tissue has a free surface, which faces either a body fluid or the outside environment.

A. If both assertion and reason are true and the reason is the correct

explanation of the assertion

B. If both assertion and reason are true but reason is not the correct

explanation of the assertion

C. If assertion is true but reason is false

D. If both assertion and reason are false

Answer: A

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2. Assertion: The product of endocrine gland is secreted directly into the fluid bathing the gland.

Reason: Endocrine gland are ductless or tubeless glands.

A. If both assertion and reason are true and the reason is the correct

explanation of the assertion

B. If both assertion and reason are true but reason is not the correct

explanation of the assertion

- C. If assertion is true but reason is false
- D. If both assertion and reason are false

Answer: A

3. Assertion: Smooth muscles are involuntary in nature.

Reason: The functioning of smooth muscles cannot be directly controlled.

A person will not be able to make it contract by merely thinking about it.

A. If both assertion and reason are true and the reason is the correct

explanation of the assertion

B. If both assertion and reason are true but reason is not the correct

explanation of the assertion

C. If assertion is true but reason is false

D. If both assertion and reason are false

Answer: A

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4. Assertion: In cardiac muscle tissue, the communication junctions (intercalated discs) at some fusion points allow the cells to contract as a

unit.

Reason: When one cell of cardiac muscle tissue recieves a signal to contract, its neighbours are also stimulated to contract.

A. If both assertion and reason are true and the reason is the correct

explanation of the assertion

B. If both assertion and reason are true but reason is not the correct

explanation of the assertion

C. If assertion is true but reason is false

D. If both assertion and reason are false

Answer: A

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5. Assertion: The indian bull frog Rana tigrina is cold blooded or poikilothermic animal.

Reason: Frogs do not have constant body temperature i.e, their body temperature varies with the temperature of the environment.

A. If both assertion and reason are true and the reason is the correct

explanation of the assertion

B. If both assertion and reason are true but reason is not the correct

explanation of the assertion

C. If assertion is true but reason is false

D. If both assertion and reason are false

Answer: A

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6. Assertion: In frog, the alimentary canal is short and length of intestine

is reduced.

Reason: Frog is carnivorous in nature.

A. If both assertion and reason are true and the reason is the correct

explanation of the assertion

B. If both assertion and reason are true but reason is not the correct

explanation of the assertion

C. If assertion is true but reason is false

D. If both assertion and reason are false

Answer: A

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7. Assertion: Periplaneta americana is uricotelic insect.

Reason: Malpighian tubules absorb nitrogenous waste products and convert them into uric acid which is excreted out through the hindgut.

A. If both assertion and reason are true and the reason is the correct

explanation of the assertion

B. If both assertion and reason are true but reason is not the correct

explanation of the assertion

C. If assertion is true but reason is false

D. If both assertion and reason are false

Answer: A

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8. Assertion: The nervous system of cockroach is spread throughout the body.

Reason: Three ganglia lies in the thorax and six in the abdomen.

A. If both assertion and reason are true and the reason is the correct

explanation of the assertion

B. If both assertion and reason are true but reason is not the correct

explanation of the assertion

C. If assertion is true but reason is false

D. If both assertion and reason are false

Answer: B



9. Assertion: If the head of a cockroach is cut off, it will still live for as long as one weak.

Reason: The head holds a bit of nervous system while the rest is situated

along the ventral (belly side) part of its body.

A. If both assertion and reason are true and the reason is the correct

explanation of the assertion

B. If both assertion and reason are true but reason is not the correct

explanation of the assertion

C. If assertion is true but reason is false

D. If both assertion and reason are false

Answer: A

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10. Assertion: The development of Periplaneta americana is Paurometabolous.

Reason: In the development of the cockroach there are many nymphal stages. The nymph looks very much like adults.

A. If both assertion and reason are true and the reason is the correct

explanation of the assertion

B. If both assertion and reason are true but reason is not the correct

explanation of the assertion

C. If assertion is true but reason is false

D. If both assertion and reason are false

Answer: A

11. Assertion: In cockroach the sense organs are antennae, eyes, maxillary palps, labial palps and anal cerci

Reason: In cockroach, compound eyes consists of about 2000 hexagonal ommatidia.

A. If both assertion and reason are true and the reason is the correct

explanation of the assertion

B. If both assertion and reason are true but reason is not the correct

explanation of the assertion

- C. If assertion is true but reason is false
- D. If both assertion and reason are false

Answer: C

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Section D Chapter End Test

1. All complex animals consist of only four basic types of tissues. These tissues are organised in specific proportion and pattern to form an

A. Organ like stomach, lung, heart and kidney

B. Organ system like digestive system and respiratory system

C. Organ like digestive system and respiratory system

D. Organ system like stomach, lung, heart and kidney

Answer: A

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2. Read the following statements and find out the incorrect statement.

A. In unicellular organisms, all functions like digestion, respiration and

reproduction are performed by a single cell.

B. In the complex body of multicellular animals different basic

functions are carried out by different groups of cells.

- C. The body of Hydra is made of different types of cells and the number of cells in each type can be in thousands.
- D. When two or more organs perform a common function by their
 - physical and/or chemical interaction they together form an organism.

Answer: D

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3. Transitional epithelium occurs in

A. Blood vessles

B. Trachea

C. Kidney

D. Ureter/Urinary bladder

Answer: D



- 4. Ligament connects
 - A. Muscle to skin
 - B. Bone to bone
 - C. Muscle to muscle
 - D. Muscle to bone

Answer: B



5. Epithelium present in cornea , oesophagus , urethra and vagina is

A. Glandular

B. Ciliated

C. Stratified Columnar

D. Stratified Squamous

Answer: D

Watch Video Solution

6. In Camel, the hump is mainly made of which tissue

A. Areolar

B. Adipose

C. Muscular

D. Skeleton

Answer: B

7. The epithelium found in the lining layer of stomach and intestine is

A. Columnar epithelium

B. Squamous

C. Stratified

D. Pseudostratified

Answer: A

Watch Video Solution

8. The most abundant and widely distributed tissue in the body of complex animals is

A. Epithelial tissue

B. Connective tissue

C. Muscular tissue

D. Neural tissue

Answer: B



- 9. Connective tissues are classified into
 - A. Three types, viz., loose connective tissue, dense regular tissue and

dense irregular tissue

- B. Two types, viz,. Areolar tissue and adipose tissue
- C. Three types, viz., loose connective tissue, dense connective tissue

and specialised connective tissue

D. Four types, viz., blood, bone, cartilage and adipose

Answer: C

10. Read the following statements and find out the correct statement(s).

A. Ligaments, which attach skeletal muscles to bones and tendons

which attach one bone to another are examples of dense regular

connective tissue

- B. Blood, bones and cartilage are various types of specialised muscular tissues.
- C. Most of the bones in vertebrate embryos are replaced by cartilages

in adults

D. None of the above

Answer: D



11. Which of the following tissues perform special function of linking and

supporting other tissues organs of the body?

A. Epithelial tissue

B. Connective tissue

C. Muscular tissue

D. Neural tissue

Answer: B

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12. Read the following statements and find out the incorrect statement about earhworm.

A. Three different types of nephridia are basically similar in structure.

B. Earthworms have no eyes

C. Earthworms have taste receptors/chemoreceptors

D. Earthworm do not have light and touch sensitive organs

Answer: D

13. Which part of alimentary canal of cockroach is used for storing of

food?

A. Crop

B. Gizzard

C. Stomach

D. Gastric caecae

Answer: A

Watch Video Solution

14. Primitive nervous system is formed in

A. Porifera

B. Coelentrate

C. Plathyelminthes

D. Aschelminthes

Answer: B

Watch Video Solution

15. Juvenile hormone in insects is released from

A. Protocerebrum

B. Corpora cardiaca

C. Corpora allata

D. Prothoracic gland

Answer: D

16. The number of abdominal segements in male and female cockroach is

A. 10,10

B. 9,10

C. 10,11

D. 8,10

Answer: A

Watch Video Solution

17. Nitrogenous waste in the Malpighian tubule flows into

A. Haemocoel

B. Intestine

C. Vacuole

D. Duodenum

Answer: B



18. The correct sequence of arrangements of segments in the leg of cockroach is

A. Tibia, trochanter, femur, tarsus and coxa

B. Trochanter, coxa, tibia, femur and tarsus

C. Coxa, femur, trochanter, tibia and tarsus

D. Coxa, trochanter, femur, tibia and tarsus

Answer: D



19. Which of the following is the correct statement about the circulatory

system of cockroach

A. It has closed type of circulatory system

B. It has a complicated type of circulatory system.

C. It has 13-chambered heart with a pair of ostia in each chamber.

D. It takes place without perticipation of tissues

Answer: C

Watch Video Solution

20. Basic unit in the eye of cockroach/insect is

A. Retina

B. Rhabdome

C. Corneal facet

D. Ommatidium

Answer: D

21. In Cockroach moulting is induced by secretion of

A. Corpus luteum

B. Corpora allata

C. Corpus callosum

D. Corpus spongiosum

Answer: B

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22. Metamorphosis of insects is regulated through hormone

A. Pheromone

B. Thyroxine

C. Ecdysone

D. All of the above

Answer: C



23. In mouthparts of Cockroach, galea and lacinia from part of

A. Labrum

B. Labium

C. Mandible

D. Maxilla

Answer: D



24. Which of the following is absent in the coelomic fluid of earthworm ?

A. Proteins

B. Corpuscles

C. Haemoglobin

D. Salts

Answer: C

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25. Lateral hearts of Earthworm have

A. Two pairs of values, segments 6 and 11

B. Three pairs of values, segments 8 and 10

C. Four pairs of values, segments 7 and 9

D. Two pairs of values, segments 6 and 8

Answer: C

26. Which is corrout respiration in Earthworm?

A. O_2 from atmosphere diffuses into blood and combines with

haemoglobin of blood plasma

- B. Blood does not have any important role in O_2 transport
- C. Respires anaerobically
- D. O_2 diffused from air combines with haemoglobin of RBCs

Answer: A

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27. Haemoglobin is found dissolved in plasma of

A. Earthworm

B. Cockroach

C. Planaria

D. Sepia

Answer: A

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28. How do you differentiate a frog from a toad

A. Frog has no exoskeleton but toad has scales

B. Frog respires through lungs but toad respires through skin

C. Frog has no parotid glands but toad has a pair of them

D. Frog has a tail toad has no tail

Answer: C

29. Maximum number of ganglia are present in Cockroach in

A. Neck

B. Thorax

C. Abdomen

D. Head

Answer: C

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30. In Earthworm, cocoon is formed by

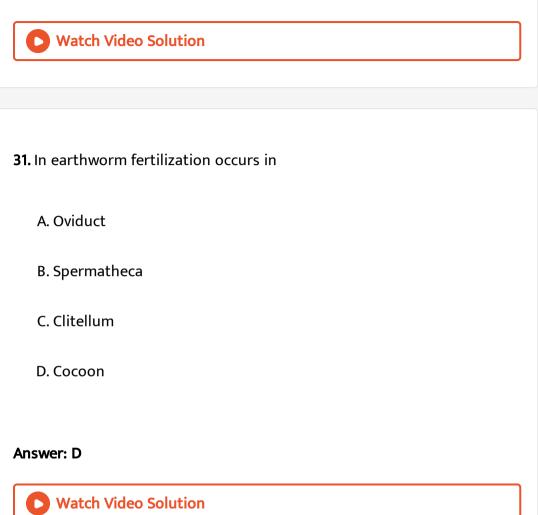
A. Epidermal muscles

B. Setae

C. Cuticle

D. Clitellum

Answer: D



32. The gland whose secretion facilitates attachment of two earthworms

during copulation is located in segment

A. 14	
B. 18	
C. 19	
D. 22	

Answer: C



33. Spermathecae of Earthworm take part in

A. Collection of sperms of other animal

B. Collection of sperms of the same animal

C. Sperm maturation

D. Fertilisation

Answer: A



34. Which one does not occur in Earthworm

A. Septal nephridia

B. Macronephridia

C. Integumentary nephridia

D. Pharyngeal nephridia

Answer: B

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35. Respiration without a distinct respiratory organ occurs in

A. Cockroach

B. Frog

C. Earthworm

D. Fish

Answer: C



36. Region of Earthworm which is forest of nephridia is

A. Clitellar region

B. Pharyngeal region

C. Typhlosolar region

D. Intestinal region

Answer: A



37. Spermathecal pores of Pheretima are present in

A. 5/6, 6/7, 7/8 and 8/9

B. 6/7, 7/8, 8/9 and 9/10

C. 1/2, 2/3, 3/4 and 4/5

D. 14/15, 15/16, 16/17 and 17/83

Answer: A

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38. Pheretima posthuma is highly useful as

A. Their burrows make the soil loose

B. They make the soil porous, leave their castings and take organic

debris in the soil

C. They are used as fish meal

D. They kill the brids due to biomagnification of chlorinated

hydrocarbons.

Answer: B



39. Blood of Pheretima is

A. Blue with haemocyanin in corpuscles

B. Blue with haemocyanin in plasma

C. Red with heamoglobin in corpuscles

D. Red with haemoglobin in plasma

Answer: D

Watch Video Solution

40. Read the following statements and find out the incorrect statement about frog.

A. The brain is divided into fore-brain, mid-brain and hind-brain

B. Fore-brain includes olfactory lobes, paired cerebral hemispheres

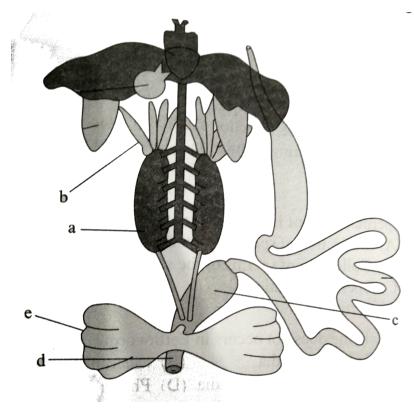
and unpaired diencephalon

C. The mid-brain is characterised by a pair of optic lobes.

D. Hind-brain consists of cerebellum, pons and medulla oblongata.

Answer: D

41. Recognise the figure and find out the correct matching.



A. e-rectum, d-cloaca, c-urinary bladder, a-fat bodies, b-kidney B. c-rectum, d-cloaca, a-urinary bladder, b-fat bodies, e-kidney C. a-rectum, e-cloaca, d-urinary bladder, b-fat bodies, c-kidney D. c-rectum, d-cloaca, e-urinary bladder, b-fat bodies, a-kidney

Answer: D



42. In frog, the medulla oblongata passes out through a foramen and continues into spinal cord. This foramen is called

A. Foramen ovule

B. Foramen magnum

C. Foramen megendie

D. Foramen luschka

Answer: B

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43. Eyes in a frog are a pair of spherical structures situated in the

A. Cranium in skull

B. Sella tursica in skull

C. Orbit in skull

D. Glenoid cavity in cranium

Answer: C

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44. Read the following statements and find out the incorrect statement about frog.

A. In frog, external ears are absent

B. Ear is an organ of hearing as well as balancing

C. In male, testes are adhered to the upper part of kidneys by a double

fold of peritoneum called mesothelium

D. Vasa efferentia are 10-12 in number that arise from testes

Answer: C

45. In male frog, vasa efferentia enter the kidney and open into

A. Ureter

B. Urinogenital duct

C. Cloaca

D. Bidder's canal

Answer: D

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46. Read the following statements and find out the incorrect statement.

A. In male frog, cloaca is used to pass faecal matter, urine and sperms

to the exterior.

B. There is no functional connection of ovaries and kidneys in female

frog

C. A mature female frog can lay 2500-3000 ova at a time

D. In frog, fertilisation is external and development is direct through a

larval stage called tadpole.

Answer: D

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47. What is the economic importance of frog?

A. They eat insects and protect the crop

B. Frogs maintain ecological balance as these serve as an important

link of food chain and food web

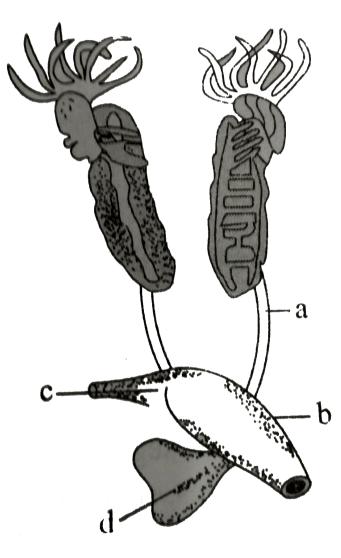
C. In some countries the muscular legs of the frog are used as food by

man

D. All of the above

Answer: D

48. Recognise the figure and find out the correct matching.



A. a-cloaca, b-rectum,c-urinary bladder, d-urino-genital duct

B. c-cloaca, d-rectum, a-urinary bladder, b-urino-genital duct

C. b-cloaca, c-rectum, d-urinary bladder, a-urino-genital duct

D. d-cloaca, a-rectum, b-urinary bladder, c-urino-genital duct

Answer: C

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49. Select the incorrect statement about frog.

- A. Body is divisible into head and trunk only
- B. Forelimbs ends in five digits and they are larger and muscular than

hind limbs that ends in four digits

C. The forelimbs and hind limbs help in swimming, walking, leaping

and burrowin. Feet have webbed digits that help in swimming.

D. The digestive system of frog consist of alimentary canal and

digestive glands

Answer: B

Watch Video Solution

50. Peripheral nervous system is divided in frog in

A. Brain and spinal

B. Cranial and spinal nerves

C. Sympathetic and parasympathetic

D. Forebrain, midbrain and hindbrain

Answer: B

Watch Video Solution

Others

1. Spermathecae occur in Earthworm in

A. 6-9 segments

B. 6-10 segments

C. 6-11 segments

D. 5-8 segments

Answer: A

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2. Somites/metamers/segemnts present in the body of earthworm are

A. 60-80

B. 80-100

C. 100-120

D. 120-160

Answer: C

3. In the $4^{th}5^{th}$ and 6^{th} segments of earthworms lying above pharyngeal mass and connected with pharyngeal glands are found small, red coloured follicular bodies called

A. Septal glands

B. Blood glands

C. Salivary glands

D. Nephridia

Answer: B

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4. Blood glands of Pheretima take part in

A. Formation of red blood corpuscles

B. Formation of phagocytes

- C. Maintenance of blood volume
- D. Maintenance of blood circulation

Answer: B

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5. Earthworms have no skeleton but during burrowing, the anterior end

becomes turgid and acts as a hydrauluc skeleton. It is due to

A. Gut peristalsis

B. Setae

C. Coelomic fluid

D. Blood

Answer: C

6. A feature absent in annelids in

A. Clitellum

B. Pseudocoelom

C. Metameric segmentation

D. Nephridia

Answer: B

Watch Video Solution

7. In Earthworm, typhlosole occurs between

A. 20-90 segments

B. 26-95 segments

C. 20-95 segments

D. 21-100 segments

Answer: B



8. In Earthworm male genital apertures are present ventrally in the segment

A. 14^{th}

B. 15^{th}

 $\mathsf{C.}\,17^{th}$

 $\mathsf{D}.\,18^{th}$

Answer: D

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9. Which one is correct?

- A. Rat-Left kidney is slightly higher in position than the right one
- B. Cockroach-10 pairs of spiracles (2 pairs of thorax, 8 pairs of abdomen)
- C. Earthworm-Alimentary canal has pharynx, oesophagus, stomach,

gizzard and intestine

D. Frog-Body divisible into head, neck and trunk and tail

Answer: B

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10. A respiratory pigment is absent in

A. Earthworm

B. Frog

C. Rabbit

D. Cockroach

Answer: D



11. In earthworm

A. Integumentary and pharyngeal nephridia are exonephric

B. Pharyngeal and septal nephridia are exonephric

C. Integumentary and septal nephridia are enteronephric

D. Pharyngeal and septal nephridia are enteronephric

Answer: D

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12. If a live earthworm is pricked with a needle on its outer surface without damaging its gut, the fluid that comes out is

A. Coelomic fluid

B. Excretory fluid

C. Slimy mucus

D. Haemolymph

Answer: A

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13. Which one correctly describes the location of body parts in Pheretima?

A. Two pairs of accessory glands in 16-18 segments

B. Two pairs of testes in 10^{th} and 11^{th} segments

C. Four pairs of spemathecae in 4-6 segments

D. One pair of ovaries attached over septum 14-15 segments

Answer: B

14. In Earthworm, gizzard occurs in segment

A. 5

B. 6

C. 8 and 9

D. 10

Answer: C



15. Endothelium lining a blood vessel is formed of

A. Ciliated epithelium

- B. Columnar epithelium
- C. Cuboidal epithelium

D. Simple sqamous epithelium

Answer: D



16. Cockroach is

- A. Diurnal and herbivorous
- B. Nocturnal and carnivorous
- C. Diurnal and omnivorous
- D. Noctural and omnivorous

Answer: D



17. Mushroom glands is a part of

A. Male reproductive system of Cockroach

B. Female reproductive system of Cockroach

C. Male reproductive system of Rabbit

D. Female reproductive system of Rabbit

Answer: A

Watch Video Solution

18. Single large blood vessel in Cockroach is

A. Lateral artery

B. Ventral aorta

C. Posterior aorta

D. Anterior aorta

Answer: D

- 19. Compound eyes are found in
 - A. Earthworm
 - B. Cockroach
 - C. Roundworm
 - D. Flatworm

Answer: B

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20. In Cockroach, gizzard contains

A. Four teeth

B. Six teeth

C. Eight teeth

D. Five teeth

Answer: B



21. Which reference to external features of Cockroach, which among the

following statements is not correct?

A. Body is covered by chitinous exoskeleton

B. Hind wings are protective and are not useful in flight

C. Fore wings are elytra

D. Gonapophyses help in copulation

Answer: B

22. About how many times does the nymph of Periplaneta americana undergo moulting before becoming an adult ?

A. 2 B. 3 C. 4 D. 13

Answer: D

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23. Fertilized eggs of Periplaneta americana are encased in

A. Ootheca

B. Cocoon

C. Phallomere

D. Genital chamber

Answer: A

Watch Video Solution

24. In cockroaches, digestive juice is secreted by the

A. Gizzard

B. Malpighian tubules

C. Crop

D. Hepatic caeca

Answer: D

Watch Video Solution

25. Which of the following is correct for the common cockroach ?

A. Nitrogeneous excretory products is urea

- B. Food is grind by mandibles and gizzard
- C. Malpighian tubules are excretory organs that project out from

coelom

D. Oxygen is transported by haemoglobin in blood

Answer: B

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26. Which one of the following structures in Pheretima is correctly matched with its function ?

- A. Clitellum-secretes cocoon
- B. Gizzard-absorbs digested food
- C. Setae-defence against predators
- D. Typhlosole-storage of extra nutrients

Answer: A

27. Fat is stored in

A. Liver cells

B. Alveolar tissue

C. Adipose tissue

D. Lymph glands

Answer: C

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28. Which one neutralises humic acid present in humans in the body of

Earthworm

A. Intestinal caecum

B. Typhlosole

C. Gizzard

D. Calciferous glands

Answer: D

Watch Video Solution

29. Special feature of Pheretima is

A. S-shaped setae are defensive weapons against enemy

B. It has long, dorsal tubular heart

C. Fertilization of eggs occurs inside the body

D. Typhlosole increases effective absorptive area for digested food

Answer: D

30. In Earthworm mouth is situated on

A. Prostomium

B. Peristomium

C. Stomium

D. Protostomium

Answer: B

Watch Video Solution

31. Locomotory organ of annelida is

A. Suckers

B. Parapodia

C. Setae

D. All of the above

Answer: D



32. Male and female cockroaches can be distinguished externally through

A. Anal styles in male

B. Anal cerci in female

C. Anal style and antennae in females

D. Both B and C

Answer: A

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33. Cockroach crushes foof with the help of its

A. Labium

B. First maxillae

C. Mandibles

D. Antennae

Answer: C

Watch Video Solution

34. Excretory organs of Cockroach and other insects are

A. Nephridia

B. Flame cells

C. Malpighian tubules

D. Gizzard

Answer: C

35. In Pheretima, clitellum occurs in segments

A. 15-17

B. 43813

C. 13-15

D. 14-16

Answer: D

Watch Video Solution

36. Choose the correctly matched pair

A. Inner surface of bronchioles-Squamous epithelium

B. Inner lining of salivary ducts -Ciliated epithelium

C. Moist surface of buccal cavity-Glandular epithelium

D. Tubular parts of nephrons-Cuboidal epithelium

Answer: D



37. Choose the correctly matched pair

A. Cartilage-Loose connective tissue

B. tendon-Specialized connective tissue

C. Adipose tissue-Dense connective tissue

D. Arolar tissue-Lose connective tissue

Answer: D

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38. type of ovariole found in cockroach is

A. Metrotrophic

B. Telotrophic

C. Polytrophic

D. Paniostic

Answer: D

Watch Video Solution

39. Neurohaemal organ in cockroach is

A. Corporis aleatum

B. Corporis Cardiacum

C. Prothoracic gland

D. Prothoracic ganglion

Answer: B

Watch Video Solution

40. The fluid floweing in the circulatory system of cockroach is known as

A. Haemolymph

B. Lymph

C. Extracellular fluid

D. Plasma

Answer: A

Watch Video Solution

41. The body cells in cockroach discharge their nitrogenous waste in the

haemolymph mainly in the form of

A. Potassium urate

B. Urea

C. Calcium carbonate

D. Ammonia

Answer: A Watch Video Solution 42. The targa, sterna and pleura of cockroach body are joined by A. Arthrodial membrane B. cartilage C. Cementing glue D. Muscular tissue Answer: A Watch Video Solution **43.** The function of the gap junction is to

A. Facilitate communication between adjoining cells by connecting the

cytoplasm for rapid transfer of ions, small molecules and some

large molecules

- B. Separate two cells from each other
- C. Stop substance from leaking across a tissue
- D. Performing cementing to keep neighbouring cells together

Answer: A

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44. A single layer to tall and slender cells found in the lining of human stomach which helps in secretion and absorption is comprised of

A. Columnar epithelium

- B. Cuboidal epithelium
- C. Squamous epithelium

D. Glandular cells

Answer: A



45. Connective tissues are derived from embryonic

A. Ectoderm

B. Endo-mesoderm

C. Endoderm

D. Mesoderm

Answer: D



46. Earthworm has no skeleton but during burrowing, the anterior end becomes turgid and acts as a hydraulic skeleton. It is due to

A. Setae are present in all body segments except first, last and

clitellum.

B. Gut peristalsis

C. Septum

D. Coelomic fluid

Answer: D

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47. Which type of tissue correctly matched with its location?

A.	Tissue	Location	ı
	Smooth muscle	Wall of	intestine
B.	Tissue	Location	
	Tissue Areolar tissue	Tendons	
C.	Tissue		Location
	Tissue Transitional epithelium		Tip of nose

D. Tissue Location Cuboidal epithelium Lining of stomach

Answer: A



48. Smooth muscles are

A. Involuntary, cylindrical striated

B. voluntary, spindle-shaped, uninucleate

C. Involuntary, fusiform, non-striated

D. Voluntary, multinucleate, cylindrical

Answer: C



49. Select the correct route for the passage of sperms in male frogs

A. Testes $ ightarrow$ Vasa efferentia $ ightarrow$ Kidney $ ightarrow$ Seminal vesicle $ ightarrow$
Urinogenital duct $ ightarrow$ Cloaca
B. Testes $ ightarrow$ vasa efferentia $ ightarrow$ Bidder's canal $ ightarrow$ Ureter $ ightarrow$
Cloaca
C. Testes $ ightarrow$ Vasa efferentia $ ightarrow$ Kidney $ ightarrow$ Bidder's canal $ ightarrow$
Urinogenital duct $ ightarrow$ Cloaca
D. Testes $ ightarrow$ Bidder's canal $ ightarrow$ Kidney $ ightarrow$ Vasa efferentia $ ightarrow$
Urinogenital duct $ ightarrow$ Cloaca

Answer: C

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50. Which of the following animals does not undergo metamorphosis

A. Earthworm

B. Tunicate

C. Moth

D. Starfish

Answer: A

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51. Which of the following features is used to identify a male cockroach

from a female cockroach?

A. Presence of a boat shaped sternum on the 9th abdominal segment

B. Presence of caudal styles

C. Forweings with darket tegmina

D. Presence of anal cerci

Answer: B

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52. Major protein of connective tissue is

A. myosin

B. collagen

C. melanin

D. keratin

Answer: B

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53. Outer covering of cartilage is called

A. perichondrium

B. periosteum

C. endosternum

D. peritoneum

Answer: A



54. Which one of the following groups of structures/organs have similar function?

- A. Typhlosole in earthworm, intestinal villi in rat and contractile vacuole in Amoeba
- B. Nephridia in earthworm, malpighian tubules in cockrach and urinary tubules in rat
- C. Antennae of cockroach, tympanum of frog and clitellum of
- D. Incisors of rat, gizzard (proventriculus) of cockroach and tube feet

of starfish

Answer: B



55. The type of epithelial cells which line the innert surface of fallopian tubes, bronchioles and small bronchi are known as

A. squamous epithelium

B. Columnar epithelium

C. ciliated epithelium

D. cubical epithelium

Answer: C

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56. Which of the following type of cell junction is not found in animal tissues?

A. Adhering junction

B. Tight junction

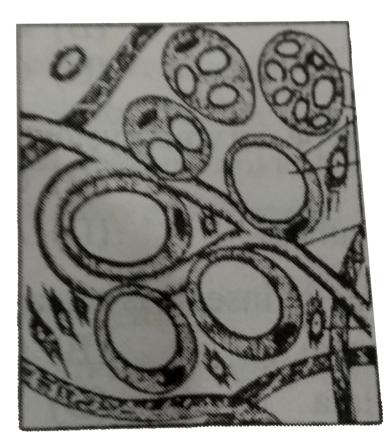
C. Gap junction

D. Plasmodesmata

Answer: D

O Watch Video Solution

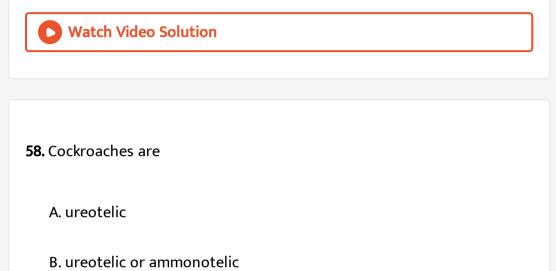
57. Identify the figure with its correct function.



- A. Areolar connective tissue-Serves as a suport framework for epithelium
- B. Adipose tissue-Store fats and act as heat insulators
- C. Dense regular tissue-Provide flexibility

D. Dense irrengular tissue-Provide strength and elasticity

Answer: B



C. uricotelic

D. Ammontelic

Answer: C



59. Male cockroach can be identified from the female by the presence of

A. long antennae

B. wingless body

C. elongated abdomen

D. Anal styles which are present in males only

Answer: B

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60. The sensory papillae in frogs are associated with

A. smell

B. hearing

C. respiration

D. touch

Answer: D

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61. In earthworm setae are present in all segments except

A. first and the last segments

B. first segment and the clitellum

C. first segment

D. clitellum and last segments

Answer: B

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62. Assertion: Cartilage and bone are rigid connective tissues.

Reason: Blood is a connective tissue.

A. If both assertion and reason are true and the reason is the correct

explanation of the assertion

B. If both assertion and reason are true but reason is not the correct

explanation of the assertion

C. If the assertion is true but reason is false

D. If the assertion is false but the reason is true

Answer:

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63. Assertion: Intercalated discs are important regions of cardiac muscle cells.

Reason: Intercalated discs function as boosters for muscle contraction waves.

A. If both assertion and reason are true and the reason is the correct

explanation of the assertion

B. If both assertion and reason are true but reason is not the correct

explanation of the assertion

C. If the assertion is true but reason is false

D. If the assertion is false but the reason is true

Answer: A

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64. Given below are assertion and reason. Point out if

Assertion : Blood of cockroach is colourless haemolymph with no respiratory pigments

Reason : Respiration in Cockroach occurs through diffusion in haemolymph

A. If both assertion and reason are true and the reason is the correct

explanation of the assertion

B. If both assertion and reason are true but reason is not the correct

explanation of the assertion

C. If the assertion is true but reason is false

D. If the assertion is false but the reason is true

Answer: C

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65. Assertion : Gap junctions perform cementing function to keep the neighbouring cells together Reason : Tight junction facilitates the cells to communicate with each other by connecting the cytoplasm of adjoining cells, for rapid transfer of ions, small and big molecules

A. If both assertion and reason are true and the reason is the correct

explanation of the assertion

B. If both assertion and reason are true but reason is not the correct

explanation of the assertion

C. If the assertion is true but reason is false

D. If the assertion is false but the reason is true

Answer: D

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66. Assertion: The squamous epithelium is made of a single thin layer of flattened cells with irrengular boundaries.

Reason: They are found in walls of blood vessels and air sacs of wings.

A. If both assertion and reason are true and the reason is the correct

explanation of the assertion

B. If both assertion and reason are true but reason is not the correct

explanation of the assertion

- C. If the assertion is true but reason is false
- D. If both assertion and reason are false

Answer: B

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