Chapter-1 Scope of Anatomy & Physiology

1.		false regarding the anatomical position?		
	(a) The palms face the front.			
		nt away from the body.		
	(c) The head is turn	ed to the left side.		
	(d) The posture is s	tanding erect.		
2.	The nose is superio	or to the navel.		
	(a) True	(b) False		
3.	What's another na	me for anterior?		
	(a) Dorsal	(b) Ventral		
	(c) Cranial	(d) Caudal		
4.	The word anterior	means:		
1120	(a) At or toward the	(a) At or toward the front of the body		
	이번에 가는 말을 가게 되었다. 첫	nsertion point of a structure.		
	(c) At the back or r	#10.0 (1) P. M.		
	(d) Toward the middle of the body.			
5.	The wrist is distal			
	(a) True	(b) False		
6.	What's another wo	3		
	(a) Internal	(b) Caudal		
	(c) External	(d) Cranial		
7.	The skin is	to the skeletal bones.		
	(a) Superior	(b) Proximal		
	(c) Superficial	(d) Inferior		
8.	The heart is			
153	(a) Medial	(b) Lateral		
	(c) Distal	(d) Proximal		
9.	7/70	between the wrist and shoulder.		
	(a) Medial	(b) Intermediate		
	(c) Distal	(d) Lateral		
10.		for the backside or "back" in the		
	anatomical position			
	(a) Anterior	(b) Ventral		
	(c) Caudal	(d) Posterior		

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11.	The radius (forearm bo	ne) is to the humerus		
	(upper arm bone).			
	(a) Intermediate	(b) Proximal		
	(c) Distal	(d) Anterior		
12.	Which of the following of	ell organelles is absent in animal		
	cells and present in a pla	nnt cell?		
	(a) Cell wall	(b) Cytoplasm		
	(c) Vacuoles	(d) Mitochondria		
13.	Which of the following	cell organelles does not contain		
	DNA?			
	(a) Nucleus	(b) Lysosomes		
	(c) Chloroplast	(d) Mitochondria		
14.	10.77	statements is true about the cell		
	wall?	12 T000 T0		
	(a) The cell wall is mainly composed of lipid			
	(b) The cell wall is mainly composed of starch			
	(c) The cell wall is mainly			
	(d) The cell wall is mainly			
15.	이 사람이 나는 아내는 맛이 있는데 얼마나 안 하고 있는데 없다.	atements is true about cell theory?		
	(a) The Cell theory does n			
	(b) The Cell theory does not apply to virus			
	(c) The Cell theory does not apply to algae (d) The Cell theory does not apply to microbes			
16				
10.	is a jellylik the plasma membrane.	e substance found floating inside		
	(a) Cell sap	(b) Cytoplasm		
	(c) Karyoplasm	(d) Mitochondria		
17		g cell organelles is called the		
-/-	powerhouse of the cell?	g cen organenes is canco the		
	(a) Nucleus	(b) Lysosomes		
	(c) Chloroplast	(d) Mitochondria		
18.	*	cell organelles regulates the entry		
	and exit of molecules to			
	(a) Lysosomes	(b) Golgi bodies		
	(c) Cell membrane	(d) Mitochondria		

(d) All of the above

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35.		the proces				aterial by	the
	(a) Egg		anger the	(b) Diff			
	(c) Ost				ocytosis		
36.	Which		he followi			correct ab	out
		ey are four	nd in all E	ukarvotic	cells.		
		ey are four					
		ey coordin			_		
		ey are sma	•				
37.		-				f water g	oes
	from a		f higher c	oncentrati	on to a re	gion of lo	
		fusion		(b) Osn			
	(c) Bo	th (a) and	(b)	(d) Neit	ther (a) no	r (b)	
38.	cell di	vision occ karyotes		gh fission (b) Prol			ind
39.	fuse w		lasma mei	mbrane ai		a vesicle e its conte	
	2000	ocytosis			ocytosis		
	(c) Ost			(d) Diff			
40.						is known	as:
	(a) Cy	toplasm		(b) Ecto	plasm		
	(c) Nucleoplasm			(d) None of the above			
			Answ	er Keys			
	1. (c)	2. (a)	3. (b)	4. (a)	5. (a)	6. (a)	
	7. (c)	8. (a)	9. (b)		11. (c)		
	3. (b)						
	9. (b)			22. (a)			
	5. (c)		27. (d)		29. (c)		
	1. (d)	32. (a)		1000	35. (d)	97.2	
	7. (b)	38. (b)		40. (a)	100000000000000000000000000000000000000	17	
		1					

Chapter-2 Elementary Tissue

1. Tissue means

- (a) Similar cells having common origin
- (b) Similar cells having common origin and functions
- (c) Cells having same metabolic activities
- (d) Similar cells with same metabolic activities

2. Simple tissue is defined as

- (a) Group of similar cells which are common in origin
- (b) Different type of cells performing same functions
- (c) Different type of cells performing different functions
- (d) Organized group of cells performing many functions

3. Compound tissue is defend as

- (a) Similar type of cells held together by connective tissue
- (b) Different type of cells which are different structure and function
- (c) Different types of cells performing one function
- (d) Similar cells at different regions performing many functions

4. Epithelial cells get nutrient material from

- (a) Neighbouring cells
- (b) Blood vessels
- (c) Lymph vessel
- (d) Underlying tissue

5. Microvilli of epithelial cells

- (a) Increase surface area
- (b) Protect the cells
- (c) Engulf the foreign matter (d) Give moments to the cells

6. Maximum intercellular substance is found in

- (a) Connective tissue
- (b) Nervous tissue
- (c) Epithelial tissue
- (d) Muscular tissue

7. Squamous epithelium is also called

- (a) Germinal epithelium
- (b) Columnar epithelium
- (c) Pavement epithelium
- (d) Sensory epithelium

8. Epidermis of skin vertebrates comprises

- (a) Simple epithelium
- (b) Stratified epithelium
- (c) Transitional epithelium
 - (d) Columnar epithelium

Ciliated epithelium cells are present in (a) Buccal cavity of Frog (b) Stomach of Frog (c) Pancreatic duct of pancreas (d) None of these 10. Human mammary glands belong to one of the following type of glands (a) Simple alveolar (b) Coiled tubular (c) Compound tubulo-alveolar (d) Simple tubular 11. Tessellated epithelium is found in (a) Lining of intestine (b) Lining of blood vessel (c) Seminiferous tubule (d) Uriniferous tubules 12. Germinal epithelium cells are present in (a) Seminiferous tubules (b) Uriniferous tubules (c) Lining of stomach (d) Inner lining of trachea 13. Transitional epithelium is found in (a) Larynx (b) Vein (c) Kidney (d) Ureter and renal pelvis Outer layer of skin that frog casts off is composed of (a) Simple squamous epithelium (b) Tessellated epithelium (c) Ciliated epithelium (d) Cuboidal epithelium 15. Areolar tissue connects (a) The skin with muscles (b) Muscles to muscles (c) Bone to bone (d) Bone to muscles 16. Matrix of the connective tissue is secreted by (a) Fibrocytes (b) Histiocytes (c) Mast cells (d) Plasma cells 17. Dermis of the skin is formed of (a) Adipose connective tissue (b) Epithelium tissue

(c) Muscular tissue

(d) Areolar connective tissue

174 | D. Pharma Ist Year-MCQ's 18. Tendon is made up of (a) Yellow fibrous connective tissue (b) Adipose tissue (c) Modified white fibrous tissue (d) Areolar tissue 19. Yellow fibres are made up of (b) Elastin (a) Ossein (c) Chondrin (d) Collagen 20. When the glandular cells breakdown completely, the gland is known as (a) Holocrine gland (b) Apocrine gland (c) Merocrine gland (d) None of the above 21. Perichondrium covers the (a) Bone (b) Cartilage (c) Decalcified bone (d) Dried bone 22. Hyaline cartilage is present at (a) The ends of digits (b) Tip of the nose (c) Epiglottis of mammals (d) Articular ends of long bones 23. Calcified cartilage is present in (a) Pinna (b) Supra scapula of pectoral girdle of frog (c) Ends of bones (d) Intervertebral discs 24. The process of bone formation is called (a) Ossification (b) Calcification (d) None of these (c) Calcinations 25. Matrix of cartilage is secreted by (a) Chondrocytes (b) Chondroblasts (d) Histiocytes (c) Osteocytes 26. The main difference between bone and cartilage is of (a) Mineral salts (b) Blood vessels (c) Lymph vessels (d) Haversian canals 27. 60% inorganic components are present in (a) Cartilage (b) Bone

(d) None of these

(c) Connective tissue

28.	RBC that lack nuclei when	they are mature are of		
	(a) Frog	(b) Lizard		
	(c) Man	(d) Birds		
29.	Blood clot is mainly due to			
	(a) Plasma and RBC	(b) Plasma and thrombocytes		
	(c) Heparin and corpuscles	(d) Fibrin and corpuscles		
30.	Which of the following is n	ot phagocytic		
	(a) neutrophils	(b) monocytes		
	(c) Lymphocytes	(d) Eosinophils		
31.	Blood platelets are present	in the blood of		
	(a) Fishes	(b) Amphibians		
	(c) Reptiles	(d) Mammals		
32.	Agranulocytes normally dev	velop in		
	(a) Bone marrow	(b) Liver		
	(c) Lymph glands and spleen	(d) None of these		
33.	Granulocytes are produced	in		
	(a) Liver	(b) Bone marrow		
	(c) Spleen	(d) None of these		
34.	Formation of platelets is kn	iown as		
	(a) Haemopoiesis	(b) Thrombopoiesis		
	(c) Haemolysis	(d) None of these		
35.	Percentage of protein is mo	ore in		
	(a) Lymph	(b) Blood		
	(c) Plasma	(d) W.B.C.		
36.	Which of the following acts	as middle man		
	(a) W.B.C.	(b) Plasma		
	(c) Blood	(d) Lymph		
37.	In man, the number of R.B.	S.C. per cubic mm of blood is		
	(a) 1 to 3 millions			
	(b) 5 to 5.4 millions			
	(c) Less than one million but more than 50 thousand			
	(d) Less than 50 thousand			
38.	Life span of a W.B.C. in m	an is		
	(a) 100 days	(b) 50 days		
	(c) 7 days	(d) None of the above		

176 | D. Pharma Ist Year-MCQ's 39. Blood platelets are (b) Nucleus is many lobed (a) Nucleated (d) Denucleated (c) Nucleus is very small 40. The diameter of RBC is (b) 9.2 μm (a) 10.3 um (d) 8.1µm (c) 7.2 µm 41. Formation of antibodies is the function of (a) Monocytes (b) Neutrophils (c) Basophils (d) Lymphocytes 42. Life span of mammalian R.B.C. is (a) 120-128 days (b) 100 days (c) Less than 100 days (d) None of the above 43. The main difference of the blood and lymph is (a) Absence of RBC (b) Absence of WBC (c) Number of WBC is less in blood (d) None of these 44. Which blood corpuscle is largest in diameter (a) Erythrocyte (b) Monocyte (d) Lymphocyte (c) Neutrophil 45. Which of the W.B.C. has many lobed nucleus (b) Lymphocytes (a) Monocytes (c) Neutrophils (d) Basophils 46. Matrix of bone is arrange (a) In concentric layers (b) Not in concentric layers (c) Matrix froms the ground substance (d) None of these 47. Which of the following lack blood supply (a) Bone (b) Connective tissue (c) Cartilage (d) None of these 48. Volkmann's canal connects (a) Osteocyte with matrix (b) Different bones

(c) Haversian canal with matrix

(d) Haversian canal with other Haversian canals

49. Ossification of connective tissue result in

(a) Cartilage

- (b) Sesamoid bone
- (c) Membrane bone
- (d) None of the above

Bone has longitudinal canals, called

- (a) Central canals
- (b) Haversian canals
- (c) Volkmann's canals
- (d) None of the above

Answer Keys

- 1. (b) 2. (a)
- 3. (c)
- 4. (d)
- 5. (a)
- 6. (a)

- 7. (c) 8. (b)
- 9. (a)
- 10. (c)
- 11. (b) 16. (a) 17. (a)
- 12. (a) 18. (c)

30. (c)

- 13. (d) 14. (a)
- 15. (a)
- 22. (d) 23. (b) 24. (a)
- 19. (b) 20. (a) 25. (b) 26. (b)
- 21. (b) 27. (b)
 - 28. (c) 29. (d)
- 31. (d) 32. (c)
- 34. (b) 33. (b)
- 35. (b) 36. (d)

- 37. (b) 38. (c)
- 39. (c)
- **40**. (d) **41**. (d)
- 42. (a) 58. (d)

- **43**. (a) **44**. (b) 45. (c)
- 46. (a) 47. (c)

50. (b) **49.** (c)

Chapter-3 Skeletal System

- 1. What does Axial Skeleton consists of:
 - (a) Skull

- (b) Vertebral Column
- (c) Ribs and Sternum
- (d) All of the above
- 2. Name the longest and heaviest bone of the body?
 - (a) Femur

(b) Fibula

(c) Tibia

- (d) Ilium
- 3. Name the only movable bone in the skull of man?
 - (a) Ethmoid bone
- (b) Mandible bone

(c) Nasal bone

- (d) Lacrimal bone
- 4. Name the thinnest bone of human body?
 - (a) Stapes

(b) Malleus

(c) Incus

(d) Fibula

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5.	Name the muscle that act in opposition to each other?				
	(a) Cardiac Muscles	(b) Skeletal Muscle			
	(c) Antagonists muscle	(d) Stapedius muscle			
6.	Name the smallest muscl	le?			
	(a) Gutters maximus	(b) Antagonisits			
	(c) Stapedius	(d) None of the above			
7.	Due to the presence of which pigment skeletal muscles are categorised in to red and white muscles?				
	(a) Sarcoplasmic	(b) Myoglobin			
	(c) Myosin	(d) None of the above			
8.	Finger bones are also kn	own as?			
	(a) Hamate bone	(b) Girdles			
	(c) Phalanges	(d) Metacarpal			
9.	How many types of Join	ts are present in our body?			
	(a) 2	(b) 3			
	(c) 4	(d) 5			
10.	The record of electrical activity of muscle is known as?				
	(a) Electro-Cardiogram (ECG)				
	(b) Electro-Myogram (EMG)				
	(c) Both a and b				
	(d) Neither a nor b				
11.	Which of these is not a function of the skeletal system?				
	(a) Mineral storage	(b) Protection of organs			
	(c) Movement	(d) Metabolism			
12.	What type of tissue is cartilage?				
	(a) Muscular	(b) Epithelial			
	(c) Connective	(d) Nervous			
13.	The presence of what makes the matrix of bones hard?				
	(a) Phosphate salts	(b) Chondroitin salts			
	(c) Calcium salts	(d) Sodium salts			
14.	The presence of what mal pliable?	kes the matrix of cartilages slightly			
	(a) Chondroitin salts	(b) Phosphate salts			
	(c) Calcium salts	(d) Sodium salts			

(a) 273 (b) 270 (c) 206 (d) 201 16. How many bones are present in the axial skeleton? (a) 126 (b) 65 (c) 80 (d) 106 17. Which of these bones are not a part of the axial skeleton? (a) Clavicle (b) Skull (c) Sternum (d) Ribs 18. How many facial bones does the skull possess? (a) 22 (b) 8 (c) 12 (d) 14 19. What is the shape of the hyoid bone? (a) S - shape (b) L - shape (c) U - shape (d) C - shape 20. The inner ear contains three bones-Malleus, Incus and Stapes. True or false? (a) True (b) False 21. How many occipital condyles do humans possess? (a) 4 (b) 1 (c) 3 (d) 2 22. How many vertebrae do humans possess?
16. How many bones are present in the axial skeleton? (a) 126 (b) 65 (c) 80 (d) 106 17. Which of these bones are not a part of the axial skeleton? (a) Clavicle (b) Skull (c) Sternum (d) Ribs 18. How many facial bones does the skull possess? (a) 22 (b) 8 (c) 12 (d) 14 19. What is the shape of the hyoid bone? (a) S - shape (b) L - shape (c) U - shape (d) C - shape 20. The inner ear contains three bones-Malleus, Incus and Stapes. True or false? (a) True (b) False 21. How many occipital condyles do humans possess? (a) 4 (b) 1 (c) 3 (d) 2
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21. How many occipital condyles do humans possess? (a) 4 (b) 1 (c) 3 (d) 2
(a) 4 (b) 1 (c) 3 (d) 2
(c) 3 (d) 2
22. How many vertebrae do humans possess?
(a) 33 (b) 30
(c) 26 (d) 22
23. What is the central hollow portion of each vertebra known
as?
(a) Spinal canal (b) Vertebral canal
(c) Neural canal (d) Axial canal
24. Which vertebra articulates with the occipital condyles?
(a) Atlas (b) Axis
(c) Sacral vertebra (d) Coccygeal vertebra
25. How many regions is the vertebral column divided into?
(a) 6 (b) 5 (c) 7 (d) 4

Answer Keys

- 1. (d) 2. (a) 3. (b) 4. (d) 5. (c) 6. (c) 7. (b) 8. (c) 9. (b) 10. (b) 11. (d) 12. (c)
- 13. (c) 14. (a) 15. (b) 16. (c) 17. (a) 18. (d)
- 19. (c) 20. (d) 21. (d) 22. (c) 23. (c) 24. (a)
- 25. (b)

Chapter-4 Cardiovascular System

1.	How	many	chambers	does	the	heart	have?
----	-----	------	----------	------	-----	-------	-------

(a) Six

(b) Five

(c) Four

- (d) Three
- The movement of blood through the heart and body is called:
 - (a) Circulation

(b) Locomotion

- (c) Ventriculation
- (d) Heart pump
- 3. The beating sound your heart makes comes from:
 - (a) Blood going in the wrong direction
 - (b) Valves closing
 - (c) The heart skipping beats
 - (d) Your ears playing tricks on you
- 4. With circulation, the heart provides your body with:
 - (a) Oxygen
 - (b) Nutrients
 - (c) A way to get rid of waste
 - (d) All of the above
- 5. The atria are the "upstairs" chambers of the heart and these parts are the "downstairs" chambers:
 - (a) Valves

(b) Ventricles

(c) Blood

(d) Candy hearts

- 6. What wall separates the left side and right side of the heart?
 - (a) Ventricle

(b) Atrium

(c) Septum

(d) The great wall

7.	What parts act like doors heart?	s that control blood flow in the		
	(a) Valves	(b) Heart dams		
	(c) Kidneys	(d) Chambers		
8.	What organ removes wast	e from blood?		
	(a) Heart	(b) Lungs		
	(c) Eyes	(d) Kidneys		
9.	You can keep your heart s	strong by:		
	(a) Eating heart-shaped can	dy		
	(b) Doing activities, like pla swimming	ying outside, riding your bike, and		
	(c) Smoking			
	(d) Sleeping 18 hours a day			
10.	These are tubes that carry	blood back to the heart:		
	(a) Arteries	(b) Veins		
	(c) Pipes	(d) Tubas		
11.	The branch of science deals with blood, blood forming			
	tissues and its disorders is	called		
	(a) Hemopoiesis	(b) Cardiovascular system		
	(c) Plasmology	(d) Hematology		
12.	Human has open blood cit	rcular system.		
	(a) True	(b) False		
13.	·	hich one is NOT the physical		
	characteristics of the blood?			
	(a) Volume is 15-16 liters in an average sized adult male			
	(b) Slightly alkaline pH (c) Constitute 200/ of outgoes living fluid			
	(c) Constitute 20% of extracellular fluid			
	(d) Provide 8% of total bod			
14.	Blood helps in transportation of the following components, except one, identify that?			
	(a) Hormone	(b) Oxygen		
	(c) Heat	(d) Lymph		
15.	Which of the following is			
	(a) Albumin	(b) Globulin		
	(c) Fibrinogen	(d) Fibronectin		

	D. Pharma Ist Year-MCQ's What is a serum in the blood?				
	(a) Liquid portion of blood				
	(b) Plasma minus fibrinoge				
	(c) Tissue fluid within lym				
	(d) Formed elements and p				
17.		fines the amount of RBC present			
	(a) Hemoglobin	(b) Hemopoiesis			
	(c) Hematocrit	(d) Myoglobin			
18.	What is the site of hemor	poiesis in an embryo?			
	(a) Yolk sac	(b) Liver			
	(c) Thymus	(d) Spleen			
19.	Name the term given to blood cells?	abnormally low levels of white			
	(a) Leukocytosis	(b) Leucopenia			
	(c) Lymphocyte	(d) Thrombopoietin			
20.	Name the term given to the failure of bone marrow to produce RBC.				
	(a) Aplastic anemia	(b) Hemolytic anemia			
	(c) Thalassemia	(d) Hemorrhagic anemia			
21.	Which type of anemia thalassemia?	is responsible for the disease			
	(a) Aplastic anemia	(b) Hemolytic anemia			
	(c) Hemorrhagic anemia	(d) Iron deficiency anemia			
22.	Which of the following protection of the heart?	membrane is responsible for the			
	(a) Epicardium	(b) Endocardium			
	(c) Myocardium	(d) Pericardium			
23.	ECG records electrical changes in which of the following				
	layers of the heart, mark the correct option.				
	(a) Epicardium	(b) Pericardium			
	(c) Endocardium	(d) Myocardium			
24.	Where is the heart beat i	nitiated?			
	(a) right atrium	(b) right ventricle			
	(c) left atrium	(d) left ventricle			

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25.	Which one of the followarteries and capillaries?	wing is found in the wall of both			
	(a) connective tissue				
	(c) endothelial cells				
26.	From which part of the	body has the blood come, if it is uman from the inferior vena cava?			
	(a) the abdomen	(b) the lungs			
	(c) the head	(d) the arms			
27.	Sphincter muscles are ty vessels?	pically found in the walls of which			
	(a) arteries	(b) Arterioles			
	(c) veins	(d) capillaries			
28.	Where does the tricuspic	d valve prevent backflow of blood?			
	(a) From the right atrium to the right ventricle.				
	(b) From the right ventric	cle to the right atrium.			
	(c) From the left atrium to the left ventricle.				
	(d) From the left ventricle to the left atrium.				
29.	Which of the following options occur during ventricular				
	systole in a mammalian heart?				
	(a) ventricular volume in	creases			
	(b) bicuspid (mitral) valve opens				
	(c) ventricular pressure increases				
	(d) aortic pressure decreases				
30.	Which one of the follow sound?	ving contributes to the first "lub"			
	(a) The closing of the bid	cuspid (mitral) valve.			
	(b) The opening of the tr	ricuspid valve.			
	(c) The closing of the ser	mi-lunar valves.			
	(d) The opening of the se	emi-lunar valves.			
31.	Which one of the following	ng contributes to the second "dupp"			
	sound?				
	(a) The closing of the bid	cuspid (mitral) valve.			
	(b) The opening of the tr	ricuspid valve.			

(c) The closing of the semi-lunar valves.

(d) The opening of the semi-lunar valves.

32.	How many types of blood circulation are present in the				
	body?				
	(a) 2	(b) 3			
	(c) 4	(d) 1			
33.		on circulated blood between the			
	heart and body cells?				
		(b) pulmonary circulation			
	(c) coronary circulation	(d) conduction system			
34.	system?	fibers facilitates the conduction			
	(a) skeletal muscle	(b) cardiac muscle			
	(c) auto-rhythmic fibers	(d) both b and c			
35.	Which of the following a circulation?	reas are supplied by the coronary			
	(a) right atrium	(b) interventricular septum			
	(c) left ventricle	(d) all of the above			
36.	Which of the following statement is NOT true?				
	myocardium	impulses within the entire ventricle converts deoxygenated blood into			
37.		alve is present between the right			
	(a) tricuspid valve	(b) bicuspid valve			
	(c) sl valve	(d) none of the above			
38.	At what point, the impulses flow from atria to the ventricles?				
	(a) av node	(b) sa node			
	(c) bundle of HIS	(d) right and left bundle branches			
39.	Which of the following structure is NOT supplied by the systemic circulation?				
07.	Systemic circumiton.				
07.	(a) bronchioles	(b) trachea			
JJ.		(b) trachea (d) nose			
	(a) bronchioles (c) alveoli				
	(a) bronchioles (c) alveoli	(d) nose arries the oxygenated blood?			

Answer Keys

- 1. (c) 2. (a) 3. (b) 4. (d) 5. (b) 6. (c)
- 7. (a) 8. (d) 9. (b) 10. (b) 11. (d) 12. (b)
- 13. (a) 14. (c) 15. (d) 16. (b) 17. (c) 18. (a)
- 19. (b) 20. (a) 21. (b) 22. (d) 23. (d) 24. (a)
- 25. (c) 26. (a) 27. (b) 28. (b) 29. (b) 30. (c)
- 31. (a) 32. (c) 33. (a) 34. (c) 35. (d) 36. (a)
- 37. (a) 38. (c) 39. (c) 40. (d)

Chapter 5 Respiratory System

- 1. The exchange of gases between blood and cells is called
 - (a) pulmonary ventilation
- (b) internal respiration

- (c) external respiration
- (d) cellular respiration
- 2. The nose serves all the following functions EXCEPT:
 - (a) as the initiator of the cough reflex
 - (b) warming and humidifying the air
 - (c) cleansing the air
 - (d) as a passageway for air movement
- Surface tension of the alveolar fluid is reduced by the presence of
 - (a) mucus

(b) sebum

(c) surfactant

- (d) water
- 4. When the diaphragm and external intercostals muscles contract, which of the following actions does NOT occur?
 - (a) air moves into the lung
 - (b) the intrapleural pressure increases
 - (c) the diaphragm moves inferiorly
 - (d) the intrapulmonary pressure decreases
- 5. When we inhale
 - (a) alveolar pressure decreases and intrapleural pressure increases
 - (b) both alveolar pressure and intrapleural pressure increase

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- (c) both alveolar pressure and intrapleural pressure decrease
- (d) alveolar pressure increases and intrapleural pressure decreases

6. Which of the body systems listed below cooperate to supply O2 to cells and eliminate CO2?

- -) digestive system
- -) cardiovascular system
- urinary system
- -) respiratory system
- endocrine system
- (a) 3, 5

(b) 2, 4

(c) 1, 2

(d) 1, 2, 4

7. In the lungs

- (a) PCO₂ in the alveoli is the same as that in the capillaries
- (b) PO2 in the alveoli is the same as that in the capillaries
- (c) PCO2 in the alveoli is higher than that in the capillaries
- (d) PCO₂ in the alveoli is lower than that in the capillaries

8. As blood enters the systemic capillaries

- (a) PO2 in the blood is the same as PCO2 in the tissues
- (b) PO2 in the blood is higher than that in the tissues
- (c) PO2 in the blood is lower than that in the tissues
- (d) PO2 in the blood is the same as that in the tissues

9. During swallowing, the glottis is covered by

(a) false vocal cord

(b) true vocal cord

(c) epiglottis

(d) Adam's apple

10. Which of the following describes a correct order of structures in the respiratory passageways?

- (a) pharynx, trachea, larynx, bronchi, bronchioles
- (b) larynx, pharynx, trachea, bronchioles, bronchi
- (c) trachea, pharynx, larynx, bronchi, bronchioles
- (d) pharynx, larynx, trachea, bronchi, bronchioles

11. The volume of air that can be exhaled after normal exhalation is the

- (a) tidal volume
- (b) residual volume
- (c) inspiratory reserve volume
- (d) expiratory reserve volume

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12.	The primary chemical concentration of	stimulus for breathing is the			
	(a) carbon monoxide in the	e blood			
	(b) carbon dioxide in the 1				
	(c) oxygen in the blood	3000			
	(d) carbonic acid in the bl	ood			
13		rnal respiration, gases move by			
	(a) osmosis	(b) active transport			
	(c) diffusion	(d) endocytosis			
14	Most oxygen in the blood				
17.	(a) as gas dissolved in pla	1.1 Tel. 001 1.1 Tel. 0.4 (1.1 Tel. 0.1			
	(b) as oxyhemoglobin				
	(c) as carboxyhemoglobin				
	(d) as bicarbonate				
15.	Tidal volume in human beings is				
	(a) 1000 ml	(b) 1500 ml			
	(c) 500 ml	(d) 4.5 ml			
16.	Residual volume in lungs of an average human is				
	(a) 500 ml	(b) 3-4.5 ml			
	(c) 1000 ml	(d) 1500 ml			
17.	Vital capacity of lungs of an average human is				
	(a) 3000-4500 ml	(b) 1500-1800 ml			
	(c) 2000-2500 ml	(d) 500-1000 ml			
18.	Volume of air left after	maximum forceful expiration in			
	human lung is	•			
	(a) Total lung capacity	(b) Residual volume			
	(c) Vital capacity				
19.	Partial pressure of oxygen in the inspired and expired air				
	is respectively				
	(a) 158 and 116 mm Hg	(b) 158 and 40 mm Hg			
	(c) 100 and 95 mm Hg	(d) 40 and 95 mm hg			
20.	The function of tracheal	cilia is to			
	(a) Pass mucus out	(b) Pass mucus in			

(d) Pass air out

(c) Pass air out

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21.	Opening to the trachea is	s covered by a small flap of tissues		
	termed as the			
	(a) glottis	(b) trachea		
	(a) glottis (c) epiglottis	(d) larynx		
22.	The exchange of gases between inhaled air and blood is			
	referred as			
	(a) cellular respiration	(b) external respiration		
	(c) internal respiration	(d) circulatory respiration		
23.	The maximum volume of air contained in the lung by a full			
	forced inhalation is called			
	(a) vital capacity	(b) tidal volume		
		(d) inspiratory capacity		
24.	Aerobic respiratory pat	thway is also termed as		
	pathway.			
	(a) anabolic	(b) catabolic		
	(c) creatine phosphate	(d) amphibolic		
25.	The maximum volume of air that can be released from			
	the lungs by forceful expiration after deepest inspiration is			
	called the			
	(a) total lung capacity	(b) vital capacity		
		(d) ventilation rate		
26.	Which one is the cofactor of carbonic anhydrase?			
	(a) cu	(b) zn		
	(c) fe	(d) mg		
27.	The trachea divides into two smaller tubes called			
	(a) bronchi	(b) trachea		
	(c) microtrachea	(d) eustachian tubes		
28.	Listed below are four r	respiratory capacities (a - d) and		
	four jumbled respiratory volumes of a normal human adult			
	Respiratory capacities Respiratory volumes			
	(a) Residual volume 2500 mL			
	(b) Vital capacity 3500 mL			
	(c) Inspiratory reserve volume 1200 mL			
	(d) Inspiratory capacity 4500 mL			

- (a) (a) 4500 mL, (b) 3500 mL
- (b) (b) 2500 mL, (c) 4500 mL
- (c) (c) 1200 mL, (d) 2500 mL
- (d) (d) 3500 mL, (a) 1200 mL
- Inner surface of the bronchi, bronchioles and fallopian tubes are lined by
 - (a) cubical epithelium
- (b) columnar epithelium
- (c) squamous epithelium
- (d) ciliated epithelium
- 30. Which one of the following statement is NOT correct regarding trachea?
 - (a) it usually lies posterior to the muscular esophagus.
 - (b) it splits into the right and left bronchi to supply air to the lungs
 - (c) opening to the trachea is covered by epiglottis.
 - (d) tracheal rings are c-shaped

Answer Keys

- 1. (b) 2. (a) 3. (c) 4. (b) 5. (c) 6. (b)
- 7. (d) 8. (b) 9. (c) 10. (d) 11. (d) 12. (b)
- 13. (c) 14. (b) 15. (c) 16. (d) 17. (a) 18. (b)
- 19. (a) 20. (a) 21. (c) 22. (b) 23. (c) 24. (d)
- 25. (b) 26. (b) 27. (a) 28. (d) 29. (d) 30. (a)

Chapter-6 Urinary System

- An organ or structure that is not a component of the urinary system is the:
 - (a) urethra.

(b) urinary bladder.

(c) ureter.

(d) adrenal gland.

(e) kidney.

190 | D. Pharma Ist Year-MCQ's 2. The kidneys are: (a) help regulate blood volume. (b) help control blood pressure. (c) help control ph. (d) all of the above are correct. 3. All of the following belong to the urinary system except: (a) urethra. (b) ureter. (c) bladder. (d) prostate. 4. The urinary system is the principal system responsible for: (a) removal of carbon dioxide. (b) water and electrolyte balance. (c) excretion of toxic nitrogenous compounds. (d) a and b (e) b andc (f) a, b, and c 5. The structure that connects a kidney to the urinary bladder is the (b) urethra. (a) ureter. (c) renal pelvis. (d) collecting duct. 6. What portion of the nephron extends into the medulla? (a) nephron loop. (b) proximal convoluted tubule. (c) distal convoluted tubule. (d) papillary duct. 7. The functional unit of the kidney is called a (a) glomerulus. (b) nephron. (d) calvx. (c) corpuscle. 8. Which of the following statements concerning the kidneys is false?

- (a) they are retroperitoneal.
- (b) they each contain 8 to 15 renal pyramids.
- (c) they each have a distinct renal cortex and renal medulla region.
- (d) they are positioned between the third and fifth lumbar.
- 9. Which of the following is the correct sequence in which urine flows through the kidney toward the urinary bladder?
 - (a) renal pelvis, major calyx, minor calyx, papillary duct, ureter.
 - (b) papillary duct, minor calyx, major calyx, renal pelvis, ureter.

- (c) minor calyx, major calyx, papillary duct, renal pelvis, ureter.
- (d) papillary duct, major calyx, minor calyx, ureter, renal pelvis.

10. Which of the following statements concerning the ureters is false?

- (a) the mucosa of each ureter is composed of transitional epithelium.
- (b) they are composed of three tunics.
- (c) muscular peristaltic waves move urine through the ureters.
- (d) they are located within the peritoneal cavity.

11. The micturition reflex center is located in the:

- (a) kidney.
- (b) cerebrum.
- (c) sacral segment of the spinal cord.
- (d) urinary bladder.
- (e) hypothalamus.

12. All of the following statements are True related to the urethra of a male except:

- (a) it serves both the urinary and reproductive systems.
- (b) it contains a single urethral sphincter near the neck of the urinary bladder.
- (c) it receives secretions from the bulbourethral glands.
- (d) it consists of three distinct regions.
- (e) it is approximately 20 cm long in an adult.

13. Which of the following is the proper sequence of structures in the nephron?

- (a) glomerulus, proximal convoluted tubule, distal convoluted tubule, nephron loop.
- glomerulus, nephron loop, proximal convoluted tubule, distal convoluted tubule.
- (c) glomerulus, proximal convoluted tubule, nephron loop, distal convoluted tubule.
- (d) proximal convoluted tubule, glomerulus, nephron loop, distal convoluted tubule.

14. Fibrous connective tissue that surrounds each kidney is the:

(a) cortex.

(b) hilum.

(c) medulla.

(d) renal capsule.

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	(e) renal pyramids.			
15.	The apex of the renal pyramid is called the:			
	(a) major calyx.	(b) minor calyx		
	(c) renal papilla.	(d) renal pelvis.		
	(e) ureter.	* ***********************************		
16.	The tuft of capillaries in the renal corpuscle is called the			
	(a) podocytes.	(b) glomerulus.		
	(c) calyx.	(d) renal pyramid.		
	(e) renal sinus.			
17.		s in relationship to the peritoneal		
	lining of the abdominal cavity is referre to as			
	(a) retroperitoneal.	(b) retroabdominal.		
	(c) posterior.	(d) dorsal.		
18.	The triangular area of the	urinary bladder between the two		
	ureters posteriorly and the urethra anteriorly is the			
	(a) external urinary sphincter.			
	(b) internal urinary sphincter.			
	(c) smooth muscle.			
	(d) transitional epithelium.			
	(e) trigone.			
19.	The renal medulla is composed of tissue called .			
	(a) Renal pyramids	(b) Nephrons		
	(c) Renal sinus	(d) Renal pelvis		
20.		bine with cells to form		
	the juxtagomerular apparatus in the kidney.			
	(a) Macula densa	(b) Renal pelvis		
	(c) Nephron	(d) Renal sinus		
21.	Which of the following is	not in the sequence of proper		
	kidney blood flow? The starting point is the renal artery			
	and the finishing point is the renal vein.			
	(a) Arciform artery	(b) Afferent arteriole		
	(c) Interlobar vein	(d) Arciform vein		
22.	Which is found in the highest concentration in the urine?			
	(a) Uric acid	(b) Urea		
	(c) Glucose	(d) Creatinine		

23.	The primary function of the ascending loop of Henle in the		
	kidney is?		
(a) The active re-absorption of sodium (b) The active re-absorption of chloride ions			
	(d) The passive re-absorption	n of urea	
24.	The middle layer of the urinary bladder is identified a		
	· · · · · · · · · · · · · · · · · · ·		
		(b) Submucous coat	
	(c) Muscular Coat	(d) Sphincter Coat	
25.	The micturition reflex cent	er is located in the	
	(a) Pons	(b) Midbrain	
	(c) Lumbar plexus	(d) Sacral plexus	
26.	Which of the following ma	tch with the definition: a poor	
	output of urine?		
	(a) Oliguria	(b) Pyruia	
	(c) Enuresis	(d) Diuresis	
27.	Capillary loops located in the medulla are also known as		
	·		
	(a) Vasa recta	(b) Urea collectors	
	(c) Trigone	(d) Macula densa	
28.	. The primary function of the descending loop of Henle in		
	the kidney is?		
	(a) Reabsorption of sodium ions (b) Reabsorption of water by osmosis (c) Secretion of hydrogen ions (d) Secretion of potassium ions		
29.	Which of the following is not considered a part of the male		
	urethra?		
	(a) Prostatic	(b) Membranous	
	(c) Vasapore	(d) Penile	
30.	When glucose if found in u	rine it is called	
	(a) Glucosuria	(b) Uremia	
	(c) Ureteritis	(d) Glucose intolerance	

Answer Keys

- 1. (d) 2. (d) 6. (a) 3. (d) 4. (e) 5. (a) 7. (b) 8. (d) 9. (b) 10. (d) 11. (c) 12. (b) 13. (d) 14. (c) 15. (b) 16. (a) 17. (d) 18. (a)
- 19. (a) 20. (a) 21. (c) 22. (b) 23. (b) 24. (b)
- 25. (d) 26. (a) 27. (a) 28. (b) 29. (c) 30. (a)

Chapter 7 Muscular System

- 1. Skeletal muscle tissues are controlled by?
 - (a) somatic division
- (b) parasympathetic division

(c) cns

- (d) sympathetic division
- 2. Muscle cells are also known as?
 - (a) myofibrils

- (b) filaments
- (c) muscle fibers
- (d) none of the above
- 3. What is the diameter of thick filaments?
 - (a) 10nm

(b) 16mm

(c) 12nm

- (d) 16nm
- 4. Which of the following muscle tissue are voluntary in nature?
 - (a) cardiac muscle
- (b) smooth muscle
- (c) autorhythmic muscle
- (d) none of the above
- 5. What is the main function of myoglobin?
 - (a) extensibility

- (b) elasticity
- (c) binds O2 together
- (d) both a and c
- 6. What is the function of muscular tissue?
 - (a) storage

- (b) movement of bones
- (c) stabilize body position
- (d) all of the above
- 7. What is the function of structural proteins?
 - (a) generates contractile force
 - (b) controls contraction
 - (c) proper alignment of filaments
 - (d) binds o2

8. Which of the following statement is true?					
	(a) titin is one of the regulatory protein				
	(b) storage is one of the properties muscular tissue				
	(c) sarcomere are the functional unit of myofibril				
	(d) h-zone contains all thin filaments				
9.	What separates one sarcomere from another?				
	(a) i-band	(b) h-zone			
	(c) z-discs	(d) a-band			
10.	Division of joints allowing ample movement between 2 or				
	more specific heads of bones are grouped as				
	(a) diarthrosis	(b) tendons and tibia			
	(c) synarthroses	(d) ligaments and femur			
11.	Ligaments restrict this	action			
	(a) cartilage junction	(b) hyper extension			
	(c) hyper flexion	(d) both (b) and (c)			
12.	In muscle contraction,	this ion is essential			
	(a) C1	(b) Ca			
	(c) K	(d) Na			
13.	This is an example of	stretch reflex stimulated by passive			
	muscle movement				
	(a) patellar reflex				
	(b) tendon reflex				
	(c) flexor reflex				
	(d) ipsilateral reflex				
14. This is a major energy source in a hurdle race to		source in a hurdle race to the leg			
	muscles				
	(a) glycolysis	(b) lactate and pyruvate			
	(c) performed ATP	(d) oxidative metabolism			
15.	This event occurs durin	ng muscular contraction			
	I. H-zone disappears				
	II. A band widens				
	III. I band shortens				
	IV. Width of A band is unaffected				
	V. M line and Z line get closer				
	(a) I, II and III	(b) I, III, IV and V			
	(c) II, IV and V	(d) I, II and V			

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16. Muscles utilized for controlling the flow of all substances			
	within lumen are grouped a	as	
	(a) hormonal system	(b) skeletal system	
	(c) cardiac muscles	(d) smooth muscles	
17.	Division of joints fibrous in nature permitting no movement		
	is		
	(a) tendons and tibia		
	(c) diarthrosis	(d) synarthroses	
18.		ite and fibrous elastic tissue is	
	grouped as		
	_	(b) muscle junction	
	(c) muscle filament		
19.		e functional unit of contractile	
	system is	4) 1-:1	
	(a) Z band	(b) cross bridges	
20	(c) sarcomere	(d) myofibril	
20.	. Which of the following types of muscle are found in the stomach or blood vessels?		
		(h) stratatal	
	(a) cardiac (c) visceral	(b) skeletal (d) striated	
21	* /	1 7	
21.	A large broad sheet of connective tissue, such as on the abdomen, is called a/an		
	(a) aponeurosis	(b) epimysium	
	(c) perimysium	(d) endomysium	
22.		closest to the individual muscle	
	fiber is the	and morround museus	
	(a) aponeurosis	(b) epimysium	
	(c) perimysium	(d) endomysium	
23.	A group of skeletal muscle	fibers is called a/an	
	(a) perimysium	(b) fascicle	
	(c) epimysium	(d) tendon	
24.	The structure that connects	muscles to bones is the	
	(a) aponeurosis	(b) fascicle	
	(c) tendon	(d) ligament	

25. The fi	bers of a	muscle th	at are con			
(a) subcutaneous (c) subserous fasc		fascia	(b) deep (d) tend			
		Answer Keys				
1. (a)	2. (c)	3. (b)	4. (d)	5. (c)	6. (d)	
		1000	10. (a)		1988/19 1988/19	
13. (a)	14. (d)	15. (b)	16. (d)	17. (d)	18. (a)	
19. (c)	20. (c)	21. (c)	22. (a)	23. (d)	24. (b)	
25. (b)						00
		-	ter—8			
1	Centr	al Ner	vous	Syste	m	
(a) ner (c) res	rvous syste piratory sy	m estem	ything you (b) olfa (d) endo	ctory syste ocrine syst		
(a) wa		vous syste	em, you co			
(c) thi			(b) breathe (d) all of the above			
		tem is ma	ide up of			
	in, heart, a		-		1	
	ain, spinal					
(c) ner	rves, arteri	es, and vei	ins			
(d) ner	rves, liver,	and heart				
4. Which system		ie body is	the contro	l center fo	or the ner	ous
(a) spi	nal cord		(b) ston	nach		
(c) bra	ain		(d)	heart		
	ical brain					
	oounds (1.4	_	s)			
(1001.0) 교육되었다.	ounces (85					
2.50.50	ons (2.7 m					
(d) 3 l	kilograms (6.6 pound	s)			

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6.	What is the biggest part of the brain?		
	(a) brain stem	(b) think tank	
	(c) cerebrum	(d) cerebellum	
7.	Which part of the brain h	elps keep your balance so you	
	don't fall flat on your face?		
	(a) cerebellum	(b) medulla oblongata	
	(c) pituitary gland	(d) spinal cord	
8.	Which part of the brain keeps you breathing?		
	(a) breathe-o-meter	(b) brain stem	
	(c) pituitary gland	(d) cerebellum	
9.	The brain creates connection	ons, or pathways, between these	
	microscopic cells:		
	(a) blood cells	(b) tiny cell phones	
	(c) brain tissues	(d) neurons	
10.	Your emotions are believed	to come from the:	
	(a) cerebellum	(b) medulla oblongata	
	(c) amygdala	(d) heart	
11.	Nervous System consists of:		
	(a) brain	(b) spinal cord	
	(c) nerves	(d) all the above	
12.	Which of the following	statement is correct about	
	Cerebellum?		
	(a) it regulates the muscular movement for locomotion.		
	(b) it is a part of brain.		
	(c) both a and b		
	(d) neither a nor b		
13.	Which nerves are attached to the brain and emerge from		
	the skull?		
	(a) cranial nerves	(b) spinal nerves	
	(c) thoracic nerves	(d) sacral nerves	
14.	Name the system that controls every activity that you do?		
	(a) nervous system	(b) exocrine system	
	(c) endocrine system	(d) respiratory system	
15.	What is the unit of Nervous system?		
	(a) brain	(b) spinal cord	
	(c) neuron	(d) nerves	

16.	A microscopic gap between a pair of adjacent neurons over which nerve impulses pass when going from one neuron to the next is called:			
	(a) neurotransmitter	(b) synapse		
	(c) axon	(d) none of the above		
17.	our body involuntary actio	ons are controlled by:		
	(a) medulla in hindbrain			
	(c) medulla in spinal cord	(d) medulla in midbrain		
18.		Those reflex actions which involve brain are called:		
	(a) stimulus	(b) cerebral reflexes		
	(c) spinal reflexes	(d) reflex arc		
19.	Pons, cerebellum and med	ulla are part of which brain?		
	(a) forebrain	(b) midbrain		
	(c) hindbrain	(d) none of the above		
20.	Spinal Cord originates fro	m which part of the brain?		
	(a) cerebellum	(b) medulla		
	(c) pons	(d) cerebrum		
21.	Which part of the brain has a blood-brain barrier?			
	(a) anterior pituitary	n e e e e e e e e e e e e e e e e e e e		
	(b) posterior pituitary			
	(c) pineal body			
	(d) area postrema of the fourth ventricle			
	(e) median eminence of the hypothalamus			
22. Which is the largest branch of the internal caro		h of the internal carotid artery?		
	(a) ophthalmic artery			
	(b) anterior cerebral artery			
	(c) middle cerebral artery			
	(d) striate artery			
	(e) posterior communicating	artery		
23.	The brain stem does NOT	include the:		
	(a) diencephalons	(b) midbrain		
	(c) medilla oblongata	(d) pons		
	(e) subtantia nigra			
24.	Which cranial nerve lies in	the junction between pons and		

medilla?

(a) abducent nerve (VI)

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- (b) facial nerve (VII)
- (c) vestibulocochlear nerve (VIII)
- (d) glossopharyngeal nerve (IX)
- (e) vagus nerve (X)

25. Which is the smallest cranial nerve?

- (a) olfactory nerve (I)
- (b) occulomotor nerve (III)
- (c) trochlear nerve (IV)
- (d) abducent nerve (VI)
- (e) accessory nerve (XI)

26. Which midbrain cells are involved in general light reflexes?

(a) red nucleus

- (b) superior colliculus
- (c) inferior colliculus
- (d) substantia nigra
- (e) medial geniculate body

27. The medilla oblongata:

- (a) lies between the midbrain and pons
- (b) has only one cranial nerve emerging from it (the trigeminal nerve)
- (c) has pyramids lateral to the olives
- (d) passes through the foramen magnum
- (e) receives its blood supply from the internal carotid artery

28. Which structure does NOT receive supply from the occulomotor nerve?

- (a) medial rectus
- (b) ciliary body
- (c) levator palpebrae superioris
- (d) inferior oblique
- (e) lateral rectus

29. In central cord syndrome there is:

- (a) loss of movement and all sensation below the injured segment
- (b) paralysis and loss of touch sensation on one side and loss of pain and temperature sensation in the upper limbs and spasticity of the lower limbs
- (c) intact touch sensation with loss of all motor and other sensory functions
- (d) no loss of motor or sensory function

30. Which structure is encircled by the circle of Willis?

- (a) cavernous sinus
- (b) pineal gland
- (c) aqueduct of the midbrain (d) pituitary stalk
- (e) medulla

Answer Keys

- 4. (c) 5. (a) 1. (a) 2. (d) 3. (b) 6. (c)
- 9. (d) 7. (a) 8. (b) 10. (c) 11. (d) 12. (c)
- 13. (a) 14. (a) 15. (c) 16. (b) 17. (a) 18. (b)
- 19. (c) 20. (b) 21. (a) 22. (c) 23. (a) 24. (a)
- 27. (d) 25. (c) 26. (b) 28. (e) 29. (c) 30. (d)

Chapter—9 Sensory Organs

1. Glands of Moll are modified

(a) Oil glands

- (b) Tear glands
- (c) Sweet glands
- (d) Scent glands

2. The secretion of lachrymal gland is

(a) Watery

(b) Acidic

(c) Oily

(d) Alkaline

3. Sty is infection of

- (a) Gland of Zeis
- (b) Tarsal gland
- (c) Gland of Moll
- (d) Lachrymal gland

4. Macula lutea is a part of

(a) Optic nerve

(b) Sclerotic

(c) Choroid

(d) Retina

5. Lens in man is

(a) Biconvex

(b) Biconcave

(c) Spherical

(d) Cylindrical

6. The musculus tensor choroidea is

- (a) Another name of tela choroidea
- (b) Muscles surrounding the lens
- (c) Levator bulbi muscles
- (d) None of the above

7.	The eye rotate in the orbit	by				
	(a) 6 muscles	(b) 3 muscles				
	(c) 4 muscles	(d) 5 muscles				
8.	The eye ball protrudes from of	the orbit with the concentration				
	(a) Retractor bulbi muscles(c) Levator bulbi muscles	(b) Protractor lentis muscles(d) None of the above				
9.	Colour to the eye is impar	7/2				
	(a) Lens	(b) Pupil				
	(c) Iris	(d) Vitreous humour				
10.	The size of pupil decreases (a) Radial muscles (b) Circular muscles	due to the contraction of				
	(c) Both circular and radial	muscles				
	(d) Nictiating membrane					
11.	The vision of man is					
	(a) Monocular	(b) Binocular				
	(c) Apposition	(d) None of the above				
12.	Eye muscles are attached v	vith				
	(a) Sclerotic	(b) Cornea				
	(c) Choroid	(d) Retina				
13.	The visual purple is concerned with					
	(a) Bright light	(b) Dim light				
	(c) Moderate light	(d) Darkness				
14.	The visual violet is concern	ned with				
	(a) Bright light	(b) Dim light				
	(c) Moderate light	(d) Darkness				
15.	The colour differentiation (a) Rods	is done by				
	(b) Cones					
	(c) Bipolar nerve cells					
	(d) Pigmented epithelium					
16.	그런 사람이 사무를 하는 것이 없는 것이 없는 것이 없는 것이 없는 것이 없다.	s stretched over a cartilaginous				
	(a) Columella	(b) Fenestra ovalis				
	(c) Tympanicus annulus	(d) None of the above				

17.	The true sense of equilibrium is located in						
	(a) Utriculus	(b) Sacculus					
	(c) Semicircular ducts	(d) Cochlea					
18.	The membranous labyrinth	is concerned with					
	(a) Hearing	(b) Equilibrium					
	(c) Both	(d) None of the above					
19.	The enlargement at one en	d of each semicircular canal is					
	(a) Lagena	(b) Utriculus					
	(c) Ampulla	(d) Sacculus					
20.	Which part of internal ear	receives sound waves in man					
	(a) Cochlea	(b) Legena and utriculus					
	(c) Ampullae and utriculus	(d) None of the above					
21.	From the sacculus arises a	narrow tube called					
	(a) Ductus endolymphaticus	(b) Endolymphatic sac					
	(c) Cochlea	(d) None of the above					
22.	Vascular coat of eye is						
	(a) Sclerotic	(b) Choroid					
	(c) Retina	(d) Nil					
23.	Scala tympani is the part of	of					
	(a) Internal ear	(b) Middle ear					
	(c) Endolymphatic sac	(d) Brain					
24.	Otoconia are						
	(a) Nerve fibres	(b) Ear stones					
	(c) Sensory hair	(d) None of the above					
25.	In man's eye, the sclerotic	is made up of					
	(a) Bone	(b) Cartilage					
	(c) Muscles and cartilage	(d) Fibrous connective tissue					
26.	In mammalian eye, the	power of accommodation is					
	controlled by changing thickness of the lens, governed by						
	(a) Cornea	(b) Pupil					
	(c) Iris	(d) Ciliary body					
27.	Lacrimal glands are concer	rned with secretion of					
	(a) Hormones	(b) Digestive juices					
	(c) Enzymes	(d) Tears					

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28.	The membranous labyrinth is concerned with								
	(a) He	aring		(b) Bala	ancing				
	(c) So	und produc	ction	(d) Hea	ring and b	alancing			
29.	The receptor organs for sense of hearing are located in								
	(a) Co	chlea		(b) Utri	culus				
	(c) Sac	cculus		(d) Mid	ldle ear				
30.		_			ecomes br	ight sudden	ly		
		cus of lens		_					
		tinal blood	1.5.5						
	The state of the s	reous hum		ies fluid					
		pil will co		_					
31.		als perceiv	ing coloui						
	(a) Pri			(b) Bird					
		zards and s		(d) All	the above				
32.		purple is	found in	(L) (C	4) 6				
	(a) Co			(b) Con					
	(c) Ro		7 -4 41		(d) Retina				
33.		e organs fo				dinos			
		sket nerve	-	383,6750		_			
34		einian corp nx is conn							
34.	(a) Glo		iecteu witi	(b) Gul		nrougn			
		stachian tu	hes		rnal nares				
35		ar ossicle		(d) Inte	mar marcs				
	(a) Ma		or man 15	(b) Incu	ıs				
	(c) Sta			(d) All the above					
		•	Answ	er Keys					
	1. (c)	2. (a)	3. (a)	4. (d)	5. (a)	6. (b)			
	7. (a)			10. (b)					
	65.00	14. (a)	100000		17. (c)	1277.50			
		20. (a)		22. (b)					
25. (d) 26. (d) 27. (d)			28. (d)	29. (a)	30. (d)				
3	1. (d)	32. (c)	33. (a)	34. (c)	35. (d)				

Chapter—10 Digestive System

1. What is the digestive system?

- (a) The body's breathing system
- (b) The body's system of nerves
- (c) The body's food-processing system
- (d) The body's blood-transporting system

2. Digestion begins in the mouth. Which of the following statement is INCORRECT?

- (a) The tongue aids in the digestion of the food.
- (b) The saliva changes some of the starches in the food to sugar.
- (c) The tongue keeps the food in place in the mouth while the food is being chewed.
- (d) The digestive juices can react more easily with the food when chewed

3. Where does food pass through between the mouth and the stomach?

(a) The gullet

- (b) The rectum
- (c) The small intestine
- (d) The large intestine
- 4. Our throat divides into two separate tubes: the windpipe and the gullet. What prevents food from entering the windpipe?
 - (a) The uvula

(b) The tongue

(c) The trachea

(d) The epiglottis

5. What happens when food reaches the stomach?

- (a) Nothing. No digestion occurs in the stomach.
- (b) The food moves quickly into the small intestine.
- (c) Juices mix with the food and stomach muscles squeeze it.
- (d) The food is completely digested and is absorbed by tiny blood vessels in the walls of the stomach.

6. Where does the partly-digested food (in liquid form) go after it leaves the stomach?

(a) The gullet

- (b) The appendix
- (c) The small intestine (d) The large intestine

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- 7. How does digested food finally reach the bloodstream?
 - (a) It passes through the gullet into the blood.
 - (b) It is absorbed into the blood through blood vessels.
 - (c) It is absorbed into the blood through the walls of the lungs.
 - (d) It passes from the small intestine into the large intestine, then into the blood.
- 8. The digestive system processes food into usable and unusable materials. The usable materials are sent to the body's cells as food. What happens to unusable materials?
 - (a) It goes into the pancreas to await disposal.
 - (b) It goes to the right ventricle to await disposal.
 - (c) It goes into the large intestine to await disposal.
 - (d) It goes into the small intestine to await disposal.
- Solid waste leaves the body through the rectum then the anus. Liquid waste leaves the body after passing through the ...
 - (a) kidneys and bladder
 - (b) blood vessels and lungs
 - (c) large intestine and bowel
 - (d) small intestine and large intestine
- 10. Digestion takes place in a long tube-like canal called the alimentary canal, or the digestive tract. Food travels through these organs in the following order:
 - (a) Mouth, gullet, stomach, small intestine, large intestine and rectum
 - (b) Mouth, oesophagus, stomach, large intestine, small intestine and rectum
 - (c) Mouth, stomach, oesophagus, small intestine, large intestine and rectum
 - (d) Mouth, stomach, gullet, small intestine, large intestine and rectum
- 11. Which of the following does NOT manufacture digestive juices?
 - (a) Liver

(b) Kidneys

(c) Stomach

(d) Pancreas

		numan Anatomy & Physiology 207			
12.		in the abdomen and performs many the following is NOT a function of the			
	liver?	ine following is 1101 a function of the			
	(a) Storing food				
	(b) Manufacturing ins	ulin			
	(c) Producing digestiv				
	(d) Healing itself whe				
13.	The function of tongue is to				
	(a) Help in the act of swallowing				
	(b) Help in mixing saliva with the food				
	(c) Help in speaking				
	(d) All the above				
14.	Fat digestion is facila	atated by			
	(a) Bile juice	(b) Pancreatic juice			
	(c) Gastric juice	(d) None of these			
15.	The end product of	fat digestion is			
	(a) Amino acids	(b) Starch			
	(c) Fatty acids	(d) Glucose			
16.	Inner lining of gut, stomach and liver is composed of				
	(a) Simple squamous epithelium				
	(b) Simple columnar epithelium				
	(c) Simple cuboidal e				
	(d) Compound epithel				
17.		n saliva is made up of			
	(a) Glycoprotein	(b) Polysaccharides			
10	(c) Phospholipids	(d) Myosin			
18.	[- TO THE STATE OF THE STATE	lymphatics of the intestine become			
	lymph. This lymph is	iles which give white colour to the			
	(a) Chyle	(b) Haemoconia			
	(c) Fluid plasma	(d) Bilirubin			
19.	Submucosa is thickes	The state of the s			
	(a) Stomach	(b) Oesophagus			
	(c) Intestine	(d) Rectum			
20.		ng is not a human salivary gland?			
	(a) Parotid	(b) Submaxillary			
	(c) Sublingual	(d) Infra-orbital			

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21. Digestion is

- (a) Absorption of water
- (b) Absorption of food
- (c) Conversion of non-diffusable food particle in diffusable food particle
- (d) None of these

22. Animals eating own faecal matter are

- (a) Sanguivorous
- (b) Frugivorous
- (c) Coprophagous
- (d) Deteritivorous

23. Which word best describes the action of bile on fats

(a) Neutralises

(b) Digests

(c) Emulsifies

(d) Absorbs

24. Digestion of protein is necessary due to

- (a) Proteins are not absorbed as such
- (b) Proteins are large molecules
- (c) Proteins have complex structure
- (d) Proteins are made up of amino acids

25. Removal of stomach causes

- (a) Dumping syndrome
- (b) Turner's syndrome

(c) Emphysema

(d) None of these

Answer Keys

- 1. (c) 2. (a)
- 3. (a)
- 4. (d)
- 5. (c)
- 6. (c)

- 7. (b)
- 8. (c)
- 9. (a)
- 10. (a)
- 11. (b)
- 12. (b)

- 13. (d)
- 14. (a)
- 15. (c)
- 16. (b)
- 17. (a)
- 18. (a)

- 19. (b)
- 20. (d)
- 21. (c)
- 22. (c)
- 23. (c)
- 24. (a)

25. (a)

Chapter—11 Endocrine System

1.	Which	of	these	is	true	of	the	endocrine	system?
----	-------	----	-------	----	------	----	-----	-----------	---------

- (a) secretes hormones that are transported to target cells by blood
- (b) causes changes in metabolic activities
- (c) effects are prolonged
- (d) all of above are true.
- Name the gland that is located at the base of the throat, just inferior to the laryngeal prominence (Adam's apple).
 - (a) pituitary.

(b) pineal gland.

(c) hypothalamus.

- (d) thyroid.
- 3. What gland is located just superior to the kidneys?
 - (a) pituitary.

(b) adrenal.

(c) pancreas.

- (d) ovaries
- In the pancreas, which are the cells that secrete insulin, decrease the blood levels of glucose.
 - (a) delta.

(b) alpha.

(c) beta.

- (d) beta.
- The endocrine gland responsible for the body>s circadian rhythm is the:
 - (a) thymus gland.

(b) pineal gland.

(c) parathyroid gland.

- (d) pituitary gland.
- 6. Endocrine glands differ from exocrine glands in that:
 - (a) endocrine glands are ductless and exocrine glands release secretions at the body's surface or into ducts.
 - (b) endocrine glands release hormones, whereas exocrine glands release waste.
 - (c) endocrine glands are formed by epithelial tissue, but exocrine glands are primarily connective tissue.
 - (d) endocrine glands are all interconnected; whereas exocrine glands act completely independently.
- 7. Which of these is not an endocrine property?
 - (a) hormones reach targets through the blood

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	(b) effects are slow and cyclic						
	(c) rapid acting effects						
	(d) effects caused by chemic	ale					
8							
0.	The primary target of the releasing and inhibiting hormones of the hypothalamus is the:						
	(a) liver and adipose tissue						
		(d) bone marrow					
9	Which of these is not an en	. A 55 Julius 2011 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					
	(a) pancreas.	(b) testes.					
		(d) parathyroid.					
10	Which is not a function of	(2) [10] [10] [10] [10] [10] [10] [10] [10]					
10.	(a) affect heart rate	· ·					
	(c) affect water balance						
11							
11.	Which if the following gland which can be classified as an endocrine and an exocrine gland?						
	(a) thyroid.	(b) thymus.					
	(c) pancreas.	(d) pituitary.					
12							
12.		made by the posterior pituitary?					
	(a) fsh	(b) lh					
12	(c) acth	(d) adh					
13.	Which gland controls basa						
	(a) thyroid.	(b) parathyroid.					
	(c) testes.	(d) pancreas.					
14.		the thyroid and parathyroid					
	regulate the calcium concentration of the blood?						
		lcium; parathyroid hormone raises					
	blood calcium.						
	raises blood calcium.	owers blood calcium; calcitonin					
	(c) thyroxine and triiodothy	ronine together regulate calcium					
	levels, as needs dictate.						
	(d) both parathroid hormone	and the three thyroid hormones					
	function to regulate bloc	od calcium levels.					
15.	The posterior pituitary stor	res and releases:					
	(a) growth hormone and pro	lactin.					

(b) prolactin and oxytocin.

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- (c) oxytocin and antidiuretic hormone (adh).
- (d) adh and growth hormone.
- 16. Which of the following hormones are responsible for the «fight-or-flight» response?
 - (a) epinephrine and norepinephrine.
 - (b) insulin and glucagon.
 - (c) esrtogen and progesterone.
 - (d) thyroxin and melatonin.
- 17. The pituitary hormone that stimulates the male testes to produce sperm and stimulates the development of the follicle in the female on a monthly cycle is:
 - (a) growth hormone
- (b) luteinizing hormone

(c) prolactin

- (d) follicle-stimulating hormone
- 18. Which hormones of the adrenal glands supplement the sex hormones from the gonads?
 - (a) mineralocorticoids, such as aldosterone
 - (b) glucocorticoids, such as cortisol
 - (c) gnadocorticoids, such as the androgens
 - (d) epinephrine and norepinephrine.
- 19. The clusters of cells in the pancreas that produce hormones are the:
 - (a) nodules.

- (b) islets of langerhans.
- (c) pancreatic medulla.
- (d) pancreatic cortex.
- 20. The Glucagon is:
 - (a) accelerates the conversion of glycogen into glucose.
 - (b) slows down glucose formation from lactic acid.
 - (c) decreases the conversion of glycogen into glucose.
 - (d) speeds up protein synthesis within cells.
- 21. Most hormones of the endocrine system are regulated by a:
 - (a) negative feedback mechanism.
 - (b) positive feedback mechanism.
 - (c) hormone-receptor complex.
 - (d) hormone-gene complex.
- 22. Calcitonin is a hormone of which of following:
 - (a) adrenal cortex.
- (b) thyroid gland.
- (c) pituitary gland.
- (d) thymus gland.
- (e) none of the above.

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23.	. Calcium level in the b	plood is regulated by the:				
	(a) thyroid.	(b) parathyroid.				
	(c) posterior pituitary.	(d) adrenal medulla.				
	(e) a and b.					
24.	. All of the following ar	e hormones of the anterior pituitary				
	except:					
	(a) human growth horn	none (gh).				
	(b) follicle-stimulating !	hormone (fsh).				
	(c) parathyroid hormon	e(pth).				
	(d) thyroid-stimulating	hormone (tsh).				
25.	. The secretions from w	hich of these glands differs between				
	males and females?					
	(a) adrenal.	(b) parathyroid.				
	(c) gonadal.	(d) pancreas.				
26.	. This hormone is respo	onsible for "fight-or-flight" response				
	(a) Thyroxine and melatonin					
	(b) insulin and glucago	n				
	(c) epinephrine and nor	repinephrine				
	(d) oestrogen and proge	esterone				
27.	Difference between endocrine and exocrine glands is that					
	(a) endocrine glands rel	ease hormones, exocrine glands release				
	waste					
	(b) endocrine glands as totally independent	re interconnected, exocrine glands are				
	(c) endocrine glands are formed by epithelial tissue, exocrine					
	glands are connecti	ve tissues primarily				
		are ductless, exocrine glands release				
••		ts or at the surface of the body				
28.		ecreted by Hypothalamus				
	(a) PRH	(b) FSH				
0.200	(c) CRH	(d) TRH				
29.		undant hormone produced by the				
	anterior pituitary	(h) TOIT				
	(a) LH	(b) TSH				

(d) GH

(c) ACTH

30. This is not an endocrine gland

(a) Adrenal

(b) Pituitary

(c) Lacrimal

(d) Thyroid

Answers Keys

1. (d)

2. (d) 3. (b)

4. (d) 5. (b) 6. (a)

7. (c) 8. (c) 9. (c) 10. (d)

11. (c) 12. (d)

13. (a) 14. (a) 15. (c) 16. (a) 17. (d) 18. (c)

25. (c) 26. (c) 27. (d)

19. (b) 20. (a) 21. (a)

22. (b) 23. (e) 24. (c) 28. (b)

29. (d)

30. (c)

Chapter-12 Reproductive System

1. Sperm production begins in the

(a) seminiferous tubules

(b) epididymis

(c) vas deferens

(d) ejaculatory duct

2. The cell produced by fertilization is called

(a) gamete

(b) embryo

(c) fetus

(d) zygote

3. The production of testosterone in the interstitial cells is stimulated by

- (a) inhibin
- (b) luteinizing hormone
- (c) follicle-stimulating hormone
- (d) progesterone

4. Sperm maturation occurs in the

(a) seminiferous tubules

(b) epididymis

(c) vas deferens

(d) urethra

The layer of the uterine wall that is shed during menstruation is the

(a) endometrium

(b) myometrium

(c) epimetrium

(d) none of the above

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6.	The external genitalia of the	he female are collectively called					
	the						
	(a) labia	(b) vulva					
	(c) clitoris	(d) mons pubis					
7.	The hormone that works	with estrogen to prepare the					
	endometrium for implantation of a fertilized egg is						
	(a) LH	(b) FSH					
	(c) ADH	(d) progesterone					
8.	The average menstrual cyc	ele is					
	(a) 14 days	(b) 18 days					
	(c) 24 days	(d) 28 days					
9.	The structure between the	uterus and the vagina is the					
	(a) uterine tube	(b) cervix					
	(c) vulva	(d) hymen					
10.	The hormone that stimulates uterine contractions is						
	(a) oxytocin	(b) estrogen					
	(c) granular cell carcinoma	(d) progesterone					
11.	Which one of the followings causes the mammary glands						
	to enlarge at puberty?						
	(a) Testosterone	(b) Progesterone					
	(c) Estrogen	(d) Oxytocin					
12.	What is the inner lining of	the uterus called?					
	(a) Cervix	(b) Oviduct					
	(c) Endometrium	(d) Fimbriae					
13.	Where does fertilization us	sually take place?					
	(a) Cervix	(b) Vagina					
	(c) Uterus	(d) Oviduct					
14.	Which one of the followings	regarding 'Estrogen' is correct?					
	(a) Causes the endometrium to rebuild						
	(b) Has no effect on the Wolffian duct						
	(c) Maintains the secondary sexual characteristics in female						
	(d) All of these						
15.	The process of sperm produ	uction takes place in the					
	(a) Epididymis	(b) Vas deferens					
	(c) Prostate glands	(d) Seminiferous tubules					

16. Which one of the followings secretes the gonadotropic hormones?

(a) Adrenal

- (b) Anterior pituitary
- (c) Posterior pituitary
- (d) Thyroid

17. The secretory phase in the human menstrual cycle is also called

- (a) Luteal phase and lasts for about 6 days
- (b) Follicular phase lasting for about 6 days
- (c) Luteal phase and lasts for about 13 days
- (d) Follicular phase and lasts for about 13 days

18. Vasa efferentia are the ductules leading from

- (a) Epididymis to urethra
- (b) Testicular lobules to rete testis
- (c) Rete testis to vas deferens
- (d) Vas deferens to epididymis

19. Which one of the followings is incorrectly matched regarding female reproductive organs?

- (a) Ovaries eggs and sex hormones are produced
- (b) Oviducts serves as the site of fertilization
- (c) Uterus Serves as the birth canal
- (d) Cervix Contains opening to embryo/fetus

Which one of the followings is incorrectly matched regarding male reproductive organs?

- (a) Testes: Sperm and sex hormones are produced
- (b) Epididymis: Ducts where sperm mature
- (c) Prostate gland: Contributes fluid to semen
- (d) Urethra: Contributes nutrients and mucus-containing fluid to semen

21. Which one of the following events occurs in luteal phase (or secretory phase) of the menstrual cycle?

- (a) Follicle-stimulating hormone (FSH) secretion begins
- (b) Follicle maturation takes place
- (c) Corpus luteum forms
- (d) Endometrium breaks down

22. Where do the female gonads (paired ovaries) lie?

- (a) Pelvic cavity
- (b) Thoracic cavity
- (c) Abdominal cavity (d) Scrotal sacs

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23. Which one of the following statements about human sperm is correct?

- (a) Acrosome serves no particular function
- (b) Acrosome has a conical pointed structure used for piercing and penetrating the egg resulting in fertilization
- (c) The sperm lysins in the acrosome dissolve the egg envelope facilitating fertilization
- (d) Acrosome serves as a sensory structure leading the sperm towards the ovum

24. The testes in humans are situated outside the abdominal cavity inside a pouch called scrotum. The purpose served is for

- (a) Providing a secondary sexual feature for exhibiting the male sex
- (b) Maintaining the scrotal temperature lower than the internal body temperature
- (c) Escaping any possible compression by the visceral organs
- (d) Providing more space for the growth of epididymis

25. If for some reason, the vasa efferentia in the human reproductive system get blocked, the gametes will not be transported from

- (a) Vagina to uterus
- (b) Testes to epididymis
- (c) Epididymis to vas deferens
- (d) Ovary to uterus

Answer Keys

1. (a)	2. (d)	3. (b)	4. (b)	5. (a)	6. (b)
7. (d)	8. (d)	9. (b)	10. (a)	11. (c)	12. (c)
13. (d)	14. (d)	15. (d)	16. (b)	17. (c)	18. (c)
19. (c)	20. (d)	21. (c)	22. (a)	23. (c)	24. (b)
25. (b)					