



## BIOLOGY

### BOOKS - TRUEMAN BOOK COMPANY BIOLOGY (HINGLISH)

#### ANIMAL TISSUES

#### Multiple Choice Questions

1. Who established Histology as a separate branch of Zoology ?

- A. Marcello Malpighi
- B. Leeuwenhoek
- C. Robert Hooke
- D. Stanley

**Answer: A**



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2. From evolution point of view, the tissue which originated first was

- A. Connective tissue
- B. Epithelial tissues
- C. Muscular tissue
- D. Nervous tissue

**Answer: B**



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3. Cells lining the blood capillaries are called

- A. oxyntic cells
- B. endothelial cells
- C. parietal cells

D. haemocytes .

**Answer: B**



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4. Stria vascularis is a special epithelium which is present in

A. retina of eye

B. pinna of ear

C. cochlea of internal ear

D. nose

**Answer: C**



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5. The wall of coelom is formed of epithelium called

- A. columnar
- B. squamous
- C. glandular
- D. ciliated

**Answer: B**



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6. The cells of endothelium and mesothelium

becomes wavy and are called

- A. syncytial
- B. acellular
- C. tessellated
- D. polygonal

**Answer: C**



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**7. Brush border is the peculiarity of**

- A. syncytial cells
- B. nerve cells
- C. absorptive cells
- D. blood cells

**Answer: C**



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**8. Glands in a vertebrate body may originate from**

- A. ectoderm

B. mesoderm

C. ectoderm and endoderm

D. ectoderm, mesoderm and endoderm

**Answer: D**



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9. Presence of extracellular basement membrane is the peculiarity of

A. epithelial tissue

B. connective tissue

C. Nervous tissue

D. muscular tissue

**Answer: A**



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

- A. columnar
- B. squamous
- C. stratified
- D. pseudostratified

**Answer: A**



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11. Endothelium lining a blood vessel is formed of

- A. ciliated epithelium
- B. columnar epithelium
- C. cuboidal epithelium
- D. simple squamous epithelium

**Answer: D**



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**12. Germinal epithelium of ovary is formed of : -**

- A. columnar epithelium
- B. squamous epithelium
- C. cuboidal epithelium
- D. stratified epithelium

**Answer: C**



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**13. Epithelium forming the inner layer of urinary bladder is**

- A. simple squamous



B. transitional

C. simple columnar

D. neurosensory

**Answer: B**



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**14. Which of the following is a holocrine secretion?**

A. Mammary glands

B. Sebaceous glands

C. Pancreas

D. Sweat glands

**Answer: B**



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15. In which portion of uriniferous tubule (nephron), the lumen is lined with brush-border microvilli ?

- A. Proximal convoluted tubule
- B. Distal convoluted tubule
- C. Collecting tubule
- D. Loop of Henle

**Answer: A**



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16. Zymogen cells are found in

- A. stomach
- B. brain
- C. kidney
- D. liver

**Answer: A**



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**17. True coelom is covered by**

- A. ectoderm
- B. endoderm
- C. mesoderm
- D. both (1) and (2)

**Answer: C**



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**18. Nonkeratinised stratified squamous epithelium is found in**

- A. epidermis of skin of land vertebrates .

B. oral cavity and pharynx

C. vagina and cervix

D. both (2) and (3)

**Answer: D**



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**19. Salivary glands are**

A. merocrine

B. apocrine

C. holocrine

D. heterocrine

**Answer: A**



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20. Fibrous tissue which connects bones is

- A. tendon
- B. adipose tissue
- C. ligament
- D. connective tissue

**Answer: C**



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21. Which tissue is widely distributed in the body

and also forms most of the parts of body ?

- A. Connective tissue
- B. Muscular tissue
- C. Nervous tissue
- D. Epithelial tissue

**Answer: A**



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**22.** Collagen fibres are found maximum in

A. ligaments

B. tendons

C. bone

D. cartilage

**Answer: B**



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**23.** Plasma cells synthesize

A. yellow elastic tissue

B. hormones

C. mucus

D. antibodies

**Answer: D**



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**24.** Pericardium of heart is composed of

A. Yellow elastic tissue

B. white fibrous tissue

C. reticular tissue

D. areolar tissue

**Answer: B**



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**25.** Tendons connect

- A. nerve to muscle
- B. muscle to muscle
- C. bone to bone
- D. bone to muscle

**Answer: D**



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**26.** The vermiform appendix is made up of

- A. digestive tissue
- B. respiratory tissue
- C. excretory tissue
- D. lymphatic tissue



**Answer: D**



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**27.** The commonest cartilage to ossify is

- A. hyaline
- B. elastic
- C. fibrous
- D. fibroelastic

**Answer: A**



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**28.** Mast cells found in areolar tissue secrete

- A. serotonin

B. heparin

C. histamine

D. all of these

**Answer: D**



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**29. Areolar connective tissue joins**

A. bone with bone

B. fat body with muscles

C. integument with muscles

D. bone with muscles

**Answer: C**



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30. Elastic cartilage is found in

- A. the auditory tube, larynx and pinnae of mammals
- B. the trachea
- C. spinal cord
- D. intervertebral discs

**Answer: A**



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31. Which is the strongest cartilage ?

- A. Fibrous cartilage
- B. Elastic cartilage
- C. Cartilage of pinna
- D. Hyaline cartilage

**Answer: A**



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**32.** Hyoid apparatus contains

- A. hyaline cartilage
- B. fibrous cartilage
- C. calcified cartilage
- D. elastic cartilage

**Answer: A**



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**33.** Intervertebral discs are composed of

- A. hyaline cartilage

B. elastic cartilage

C. fibrous cartilage

D. none of these

**Answer: C**



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**34.** The ends of the bones of limbs are composed of which cartilage ?

A. Fibrous

B. Hyaline

C. Elastic

D. Calcified

**Answer: B**



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35. Which salt is found in maximum quantity in bones?

- A. Calcium carbonate
- B. Calcium phosphate
- C. Sodium chloride
- D. Magnesium chloride

**Answer: B**



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36. If bone is kept for three days in 10% KOH sol,

it will

- A. be unaffected
- B. dissolve
- C. soften
- D. break

**Answer: A**



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**37.** Mammalian bone is different from cartilage in

- A. collagen fibres
- B. blood vessels
- C. lymph vessels
- D. Haversian canals

**Answer: D**



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**38.** The cells responsible for the resorption of bone matrix during the growth and remodeling of the skeleton are called

A. Osteocytes

B. Osteoblasts

C. Osteoclasts

D. osteons

**Answer: C**



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**39. Bone forming cells are**

A. osteolasts

B. osteoclasts

C. chondroclasts

D. chondroblasts

**Answer: A**



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40. The bone of mammal contains longitudinal Haversian canals which are connected by transverse canals , known as

- A. Semi-circular canals
- B. Volkman's canals
- C. Inguinal canal
- D. Bidder's canals

**Answer: B**



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41. The bones marrow is composed of

- A. muscle fibres and adipose tissue
- B. areolar tissue and adipose tissue

C. adipose tissue and calcified cartilage

D. adipose tissue, areolar tissue and blood vessels .

**Answer: D**



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**42.** Largest erythrocytes are found in

A. man and monkey

B. fish and frog

C. Amphiuma and Proteus

D. lizard and snake

**Answer: C**



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43. Normally haemopoiesis in frog occurs in

- A. liver and bone marrow
- B. liver
- C. spleen
- D. bone marrow

**Answer: A**



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44. Which of the following has longest life in blood ?

- A. Eosinophil
- B. Neutrophil
- C. RBC
- D. Basophil

**Answer: C**



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**45.** What is the main difference in human and frog RBCs?

- A. Human RBC are nonnucleated
- B. Hemoglobin is found only in human RBC
- C. Human RBC have nucleus
- D. Human RBC are multinucleate

**Answer: A**



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**46.** \_\_\_\_ play an important role in blood clotting

- A. Plasma

B. RBC

C. WBC

D. Thrombocytes

**Answer: D**



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**47.** In normal healthy female , the number of RBC/ $mm^3$  of blood is

A. 6.5-7.0 million

B. 5.5-6.0 million

C. 4.5-5.0 million

D. 3.5-4.0 million

**Answer: C**



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**48.** Blood clotting occurs with the help of

- A. prothrombin
- B. calcium ions
- C. fibrinogen
- D. all of these

**Answer: D**



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**49.** Concave surface of mammalian RBCs is helpful in

- A. formation of more haemoglobin
- B. increasing surface area of RBCs
- C. reducing surface tension of plasma membrane.
- D. providing more space for haemoglobin

**Answer: B**



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**50.** Which of the following is an anticoagulant and checks blood coagulation in blood vessels?

A. prothrombin

B. Globulin

C. Thromboplastin

D. Heparin

**Answer: D**



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**51.** Vitamin K is required for

- A. formation of thromboplastin
- B. conversion of fibrinogen to fibrin
- C. conversion of prothrombin to thrombin
- D. synthesis of prothrombin

**Answer: D**

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**52. Ratio of RBCs and WBCs in human being is**

- A. 300 : 1
- B. 500 : 3
- C. 7 : 4
- D. 600 : 1

**Answer: D**

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53. pH of human blood is

A. 6.4

B. 7.4

C. 8.4

D. 5.4

**Answer: B**



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54. Spindle cells are found in the blood of

A. mammals

B. fishes and amphibians

C. reptiles and birds

D. both (2) and (3)

**Answer: D**



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**55.** Cartilage is

A. nonvascular

B. poorly vascular

C. highly vascular

D. none of these

**Answer: A**



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**56.** Myofibrils show dark and light bands in

- A. striped muscles
- B. cardiac muscles
- C. unstripped muscles
- D. both (1) and (2)

**Answer: D**

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57. Cardiac muscle is structurally different from smooth muscle because it

- A. is branched
- B. is involuntary
- C. has a single nucleus
- D. does not fatigue

**Answer: A**

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58. Nerve cells do not divide because they do not have

- A. nucleus
- B. golgi body
- C. centrosome
- D. mitochondria

**Answer: C**



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59. Structurally olfactory cells are

- A. Bipolar neurons
- B. Unipolar neurons
- C. Multipolar neurons

D. Neurochemically specialized neurons

**Answer: A**



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**60.** Cartilage present in trachea , larynx and bronchi is

A. Hyaline

B. Fibrous

C. Elastic

D. Calcified

**Answer: A**



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**61.** Striated muscles contract because of

- A. sliding of myosin rods on actin rods
- B. sliding of actin rods on myosin rods
- C. actin rods coming close to each other
- D. myosin rods coming close to each other

**Answer: B**

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**62.** A bonds and / bands are found in

- A. voluntary muscles
- B. involuntary muscles
- C. unstriated muscles
- D. striated muscles

**Answer: D**

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**63.** Sarcolemma is a membrane found over

- A. nerve fibre
- B. cardiac muscles
- C. muscle fibre
- D. heart

**Answer: C**



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**64.** Sarcomere is the area between two

- A. H zones
- B. Z lines
- C. A bands

D. I bands

**Answer: B**



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**65.** Smooth muscles are

A. involuntary, spindle shaped , uninucleated , tapering

B. voluntary, multinucleate, cylindrical

C. involuntary , cylindrical , multinucleate

D. voluntary , branched, uninucleate .

**Answer: A**



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**66.** Cardiac muscles contract



- A. quickly and they fatigue
- B. rhythmically and are unfatigued
- C. slowly and are not fatigued
- D. slowly and they fatigue.

**Answer: B**

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**67.** Large number of mitochondria are found in

- A. thigh muscle
- B. cardiac muscles
- C. breast bone of bird .
- D. all of the above

**Answer: B**

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68. Which ion is essential for muscle contraction ?

A.  $Na^+$

B.  $K^+$

C.  $Mg^+$

D.  $Ca^+$

**Answer: D**



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69. Muscles get fatigued due to accumulation of

A. adenosin triphosphate

B.  $CO_2$

C. lactic acid

D. phosphate molecules

**Answer: C**



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**70.** The sarcomeres is structural and functional unit of a muscle fibre and comprises

- A. A bond and I bond
- B. A bond and half of each adjacent I bond
- C. A bond and half I bond
- D. Half A band and complete I band

**Answer: B**



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71. Strongest muscles in human body are found in

- A. jaws
- B. thighs
- C. neck
- D. hands

**Answer: A**



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72. Where would you find oblique cross connections forming a contractile network of fibers and intercalated discs?

- A. striated muscle
- B. unstriated muscle
- C. cardiac muscle
- D. radial muscle

**Answer: C**



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**73.** Skeletal muscles are attached to bones except in

- A. jaw and nose
- B. nose and pinnae
- C. tongue and oesophagus
- D. pinnae and nose

**Answer: C**



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**74.** Iris muscles of eye are formed from

- A. mesoderm

B. endoderm

C. ectoderm

D. both (1) and (2)

**Answer: C**



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**75. Nodes of Ranvier are found in**

A. cyton

B. nephrons

C. axon

D. telodendria

**Answer: C**



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76. Each nerve fibre in a nerve is surrounded by a layer of connective tissue , known as

- A. epineurium
- B. perineurium
- C. endoneurium
- D. exoneurium

**Answer: C**



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77. Chemical substance secreted at the synapse and helpful in passing impulse from neuron through a gap is

- A. Acetylcholine
- B. ATP

C. Cholecystokinin

D. Cholesterol

**Answer: A**



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**78.** Schwann's Cells and Nodes of Ranvier are found in

A. Neurons

B. Osteoblasts

C. Chondroblasts

D. Gland cells

**Answer: A**



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79. Nissl's granules are irregular masses of ribosomes and RER and are characteristically found in

- A. nerve cells
- B. mast cells
- C. bone cells (osteocytes)
- D. cartilage cells (chondrocytes)

**Answer: A**



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80. Neurosecretory cells secrete

- A. enzymes
- B. releasing factors
- C. mucus
- D. sweat

**Answer: B**



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**81.** Ependymal cells are found in the

- A. ventricles of brain
- B. central canal of spinal cord
- C. retina of eye
- D. both (1) and (2)

**Answer: D**



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**82.** In the central neural system, medullated nerve fibres form

- A. white matter

B. grey matter

C. interneurons

D. neurons

**Answer: A**



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**83.** Nodes of Ranvier are

A. areas of swellings of axons

B. areas where myelin sheath of nerve touches the axon

C. nodes formed in skeletal muscles

D. areas found in the stomach wall.

**Answer: B**



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**84.** Neuroglia cells are

- A. astrocytes
- B. oligodendrocytes
- C. microglia
- D. all of these

**Answer: D**



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**85.** Collateral fibres are given out along its way in

- A. muscle fibre
- B. axon
- C. dendron
- D. edendrites

**Answer: B**



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**86.** Myelin sheath is made up of phospholipids

and is present around the

- A. non-medullated nerve fibre
- B. medullated nerve fibre
- C. medullated and non-medullated nerve fibres
- D. muscle fibres

**Answer: B**



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**87.** Unipolar neurons are present in

- A. central nervous system
- B. peripheral nervous system
- C. autonomic nervous system
- D. neural system of embryo

**Answer: D**

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**88.** Bipolar nerve cells are present in

- A. skin tactile corpuscles
- B. spinal cord
- C. retina of eye
- D. all of the above

**Answer: C**

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89. Multipolar nerve cells are present in

- A. cochlea
- B. dorsal root ganglia of spinal cord
- C. retina of eye
- D. brain

**Answer: D**



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90. Neurosecretory cells are found in ..... of the brain

- A. Medulla oblongate
- B. Olfactory lobes
- C. Hypothalamus

D. Pons varolii

**Answer: C**



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**91.** Myelin sheath in CNS is synthesized by

A. oligodendrocytes

B. Schwann cells

C. microglia

D. all of these

**Answer: A**



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**92.** Nissl's granules are absent in



A. Dendrons and dendrites

B. Cyton

C. axon

D. Dendrons and cyton

**Answer: C**



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**93.** The term tissue was given by

A. Mayer

B. Bichat

C. Malpighi

D. Wilson

**Answer: B**



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**94.** Reticular cells are

- A. secretory
- B. respiratory
- C. excretory
- D. phagocytic

**Answer: D**



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**95.** A Haversian canal with its surrounding lamellae and osteocytes constitutes a cylindrical unit of bone called

- A. periosteum
- B. endosteum
- C. osteon

D. haversian

**Answer: C**



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**96.** In Camel, erythrocytes are

A. circular, biconcave , non-nucleated

B. oval and nucleated

C. circular, biconcave and nucleated

D. oval and non-nucleated

**Answer: D**



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**97.** In embryonic stage erythrocytes develop from

- A. bone marrow
- B. liver and kidney
- C. spleen and kidney
- D. liver and spleen

**Answer: D**

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**98. Bone marrow occurs in**

- A. ribs and sternum
- B. ribs, sternum and cranial bones
- C. ribs and cranial bones
- D. only ribs

**Answer: B**

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99. Life span of human white blood corpuscles is

- A. 24 hours
- B. less than 10 days
- C. 120 days
- D. 100 hours

**Answer: B**



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100. Which one is a factor for maturation of erythrocytes ?

- A. Vitamin B 12
- B. Vitamin A
- C. Vitamin D

D. Vitamin C

**Answer: A**



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**101.** The main cause of anasmia is

A. deficiency of Ca

B. deficiency of Fe

C. deficiency of Na

D. deficiency of Mg

**Answer: B**



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**102.** Which one is the principal cation in the plasma of blood ?

A. Calcium

B. Sodium

C. Potassium

D. Magnesium

**Answer: B**



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**103.** Match column *I* with column *II* and select the correct option from the codes given below

Column I

Column II

- |                      |     |   |
|----------------------|-----|---|
| A. Simple columnar   | (p) | Wall of heart epithelium                      |
| B. Cardiac muscle    | (q) | Bone joints                                   |
| C. Adipose tissue    | (r) | Inner lining of stomach and intestine         |
| D. Hyaline cartilage | (s) | Below the skin, in the abdomen, buttocks, thi |
|                      | (t) | Diaphrag                                      |

A. A = r, B = t, C = q, D = s

B. A = r, B = p, C = s, D = q

C.  $A = r, B = p, C = t, D = s$

D.  $A = p, B = r, C = s, D = t$

**Answer: B**



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**104.** Match the columns

	Column I		Column II
<i>a</i>	Harversian Canal	<i>p</i>	Kidney
<i>b</i>	Dendrites	<i>q</i>	Cartilage
<i>c</i>	Sarcolemma	<i>r</i>	Muscle
<i>d</i>	Chondrocytes	<i>s</i>	Nerve cells
—	—	<i>t</i>	Bone

A.  $A = p, B = r, C = s, D = t$

B.  $A = q, B = r, C = s, D = t$

C.  $A = s, B = t, C = q, D = r$

D.  $A = t, B = s, C = r, D = q$

**Answer: D**





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**105.** Bone marrow is absent in the bones of

- A. fish
- B. birds
- C. reptiles
- D. frog

**Answer: B**



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**106.** Which of the following statements is correct

for node of Ranvier of nerve ?

- A. Neurilemma is discontinuous
- B. Myelein sheeth is discontinuous

C. Both neurilema and myelin sheath are discontinuous

D. covered by Myelin sheath

**Answer: C**



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**107.** What will happen if ligaments are cut or broken :-

A. Bones will move freely at joints

B. No movement at joint

C. Bone will becomes unfix

D. Bone will becomes fixed

**Answer: A**



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108. Which is anticoagulated in blood-cell counting ?

A.  $CH_3COOH$

B. H-CHO

C.  $EDTA^*$

D.  $C_6H_6$

Answer: C



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109. Which one of the following contains the largest quantity of extracellular material ?

A. Stratified muscle

B. Areolar tissue

C. Stratified epithelium

D. Myelinated nerve fibres

**Answer: B**



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**110.** Adjacent cells are interconnected by

- A. desmosomes
- B. vacuoles
- C. mitochondria
- D. E.R.

**Answer: A**



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**111.** Find out the wrongly matched pair

- A. Squamous epithelium - Skin of frog

- B. Columnar epithelium - Peritoneum body cavity
- C. Ciliated epithelium - Bronchioles
- D. Stratified epithelium - cuboidal

**Answer: B**



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112. Which one of the following pairs of structures distinguishes a nerve cell from other types of cell

- A. Flagellum and medullary sheath
- B. Nucleus and mitochondria
- C. Perikaryon and dendrites
- D. Vacuoles and fibres

**Answer: C**



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113. In a vertebrate which germ layer forms the skeletal muscles ?

- A. ectoderm
- B. endoderm
- C. mesoderm
- D. both (1) and (2)

**Answer: C**



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114. Largest muscle in the human body is

- A. sartorius
- B. gluteus
- C. stapedius
- D. masseter

**Answer: B**



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**115.** The most abundant type of WBCs (granulocytes)

in human blood are

- A. Basophils
- B. Neutrophils
- C. Monocytes
- D. Eosinophils

**Answer: B**



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**116.** Platelets are formed from the

- A. erythropoietin
- B. osteoclasts
- C. megakaryocytes
- D. melanocytes

**Answer: C**

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**117. Select a unicellular gland**

- A. goblet cell
- B. gastric gland
- C. chromophil cell
- D. chloragogen cell

**Answer: A**

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**118.** An embryonic connective tissue is

- A. Wolmen's jelly
- B. Wright's jelly
- C. Whartons's jelly
- D. none of these

**Answer: C**



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**119.** Short life span is of

- A. Lymphocytes
- B. Monocytes
- C. Basophils

D. Neutrophils

**Answer: D**



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**120.** Haversian canal is found in

- A. epiphysis of femur of mammals
- B. diaphysis of humerus of mammals
- C. internal ear of mammals
- D. obturator foramen

**Answer: A**



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**121.** Metals required in synthesis of haemoglobin are

- A. iron
- B. copper
- C. cobalt
- D. all of these

**Answer: D**

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**122.** Which cell is called 'meduse cell' ?

- A. lymphocyte
- B. eosinophil
- C. Basophils
- D. neutrophil

**Answer: B**

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**123.** Sarcolemma is absent in ..... Muscle fibres

- A. skeletal
- B. smooth
- C. cardiac
- D. both (2) and (3)

**Answer: D**



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**124.** Neurolemma is

- A. cell membrane of neuron
- B. plasma membrane of axon
- C. cytoplasm of nerve cell

D. cytoplasm of Schwann's cell

**Answer: D**



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**125.** Phagocytic cells present in brain are

A. Kupffer cells

B. monocytes

C. microglia

D. macrophages

**Answer: C**



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**126.** Target organ of *Mycobacterium leprae*

A. Medullary sheath

B. Presynaptic nodes

C. motor end plates

D. Schwann cells

**Answer: D**

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**127.** The middle man of the body is

A. Plasma

B. Lymph

C. WBC

D. RBC

**Answer: B**

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**128.** In a bone, concentric layers of matrix are called

- A. Haversian canals
- B. Volkman's canals
- C. lacunae
- D. lamellae

**Answer: D**



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**129.** Wrinkles in old age due to

- A. myosin fibres
- B. actin fibres
- C. collagen fibres

D. none

**Answer: C**



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**130.** Which are not true cells in the blood?

A. Platelets

B. Monecytes

C. Neutrophils

D. Basophils

**Answer: A**



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131. Which of the following coagulating factor of blood is hypothetical ?

- A. Accelerin (VI)
- B. Christmas factor (IX)
- C. Stuart - Power factor (X)
- D. Fibrin stabilizing factor (XII)

**Answer: A**



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132. Spongy or cancellous bones are

- A. skull bones
- B. vertebrae
- C. femur
- D. ribs

**Answer: A**



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**133.** The condition in which the potassium levels in increased is known as

- A. osteomalacia
- B. hyperkalaemia
- C. hyperexcitability
- D. hypercholesterolaemia

**Answer: B**



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**134.** Microglia are ..... in origin

- A. endodermal

B. mesodermal

C. endodermal

D. both (1) and (3)

**Answer: B**



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**135.** Apocrine secretion of gland means

A. when the product is released the cell remains intact

B. entire contents of cell is discharged with the destruction of cell

C. when part of apical cytoplasm is lost

D. none of these

**Answer: C**



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**136.** Red bone marrow occurs in membranous bones such as

- A. all flat bones of skull , vertebrae, sternum and ribs
- B. only in centrum of vertebrae
- C. only in centrum of verebrae are skull
- D. non of these

**Answer: A**



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**137.** Schneiderian epithelium is found in

- A. nasal passage
- B. trachea
- C. retina
- D. Bowman's capsule

**Answer: A**



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**138.** Polycythemia refers to an abnormal increase in the number of

- A. eosinophils
- B. lymphocytes
- C. plasma cells
- D. erythrocytes

**Answer: D**



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**139.** The bundles of nerves fibres are called

- A. fasciculi

B. epineurium

C. perineurium

D. neurilemma

**Answer: A**



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**140.** Processes from osteoblasts are found in

A. lamella

B. canaliculi

C. dendrites

D. Haversian canals

**Answer: B**



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**141.** The most abundant kind of cartilage in the body is

- A. elastic cartilage
- B. fibro cartilage
- C. hyaline cartilage
- D. none of these

**Answer: C**



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**142.** The softest tissue in the body is

- A. nerve
- B. muscle
- C. blood
- D. skin

**Answer: C**



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**143.** The main difference between white and yellow fibres is of

- A. protein
- B. colour of fibres
- C. both (1) and (2)
- D. none of these

**Answer: C**



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**144.** Cardiac muscles are

(a) striated (b) nonstriated



(c) voluntary (d) involuntary

- A. a and c are correct
- B. b and d are correct
- C. a and d are correct
- D. a, b and c are correct

**Answer: C**



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**145.** Which of the following statements is true for lymph ?

- A. WBCs and serum
- B. RBCs, WBCs and plasma
- C. RBCs proteins and platelets
- D. All components of blood except RBCs  
and some proteins

**Answer: D**



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**146.** The largest RBCs have been seen in

- A. man and monkey
- B. Whale
- C. Amphibia
- D. Elephant

**Answer: C**



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**147.** Mark the odd one out

- A. Monocytes

B. Neutrophils

C. Lymphocytes

D. Erythrocytes

**Answer: D**



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**148.** Pernicious anaemia is due to the deficiency of

A. iron

B. cobalamin

C. calciferol

D. phylloquinone

**Answer: B**



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149. The type of tissue lining the nasal passage ,  
bronchioles and Fallopian tubes is

- A. columnar ciliated epithelium
- B. cuboidal epithelium
- C. neurosensory epithelium
- D. germinal epithelium

**Answer: A**



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150. Ligament is mainly formed by

- A. reticulin
- B. elastin
- C. mysoin
- D. collagen

**Answer: B**



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**151.** Action potential is generated by

A.  $Na^+$

B.  $K^+$

C.  $Ca^+$

D.  $Cl^-$

**Answer: A**



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**152.** Which is immortal?

A. Plasma cell

B. Germ cell

C. Brain cell

D. Kidney cell

**Answer: B**



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**153.** Leukocytes can squeeze out of blood capillaries. This process is called

A. leucocytosis

B. thrombopoiesis

C. diapedesis

D. haemopoiesis

**Answer: C**



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**154.** Keratinized dead layer of skin is made of

- A. striatified squamous
- B. simple cuboidal
- C. simple columnar
- D. stratified columnar

**Answer: A**



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**155.** the haemoglobin of a human foetus

- A. has only two protein subunits instead of four
- B. has a lower affinity for oxygen than that  
of an adult
- C. its affinity for oxygen is the same as that of an adult

D. has a higher affinity for oxygen than that

of an adult

**Answer: D**



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**156.** Which type of white blood cells are concerned with the release of histamine and the natural anticoagulant heparin ?

A. Basophils

B. Monocytes

C. Neutrophils

D. Eosinophils

**Answer: A**



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157. Most active phagocytic white blood cells are

- A. neutrophils and monocytes
- B. neutrophils and eosinophils
- C. eosinophils and lymphocytes
- D. lymphocytes and macrophages

**Answer: A**



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158. Debove's membrane is a layer of

- A. muscular tissue
- B. epithelial tissue
- C. connective tissue
- D. all of these

**Answer: C**



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**159.** Notochord, skeletal system and dermis of the skin are the derivatives of

- A. endoderm
- B. ectoderm
- C. mesoderm
- D. all the three layers

**Answer: C**



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**160.** Curved portion of Henle's loop is lined by

A. columnar epithelium

B. squamous epithelium

C. ciliated epithelium

D. cuboidal epithelium

**Answer: D**



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**161.** Which of the following groups consists of organs having innermost lining of columnar epithelium ?

A. stomach, fallopian tube, lung ,alveoli

B. gall bladder, stomach, artery

C. intestine, gastric gland , gall bladder

D. gastric gland, pancreatic duct, veins

**Answer: C**

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**162.** In thyroid follicle which type of epithelial tissue is present ?

- A. Squamous
- B. Cuboidal
- C. Transitional
- D. Columnar

**Answer: B**

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**163.** Which of the following statements is true ?

- A. Saltatory conduction is seen in non-myelinated nerve fibres
- B. Nissl's granules are found in muscle fibres

C. Non-myelinated nerve fibres do not possess

nodes of Ranvier

D. Non-myelinated nerve fibres are

com-pletely enclosed by myelin sheath

**Answer: C**



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**164.** Identify the correctly matched pair/pairs of the germ layers and their derivatives.

A. Ectoderm-Epidermis

B. Endoderm-Dermis

C. Mesoderm-Muscles

D. Mesoderm-Notochord

E. Endoderm-Enamel of teeth

A. A and D only

B. A and B only

C. A, C and D only

D. A, B , C and E only

**Answer: C**



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**165.** The size of pupil is controlled by the

A. ciliary muscles

B. suspensory ligaments

C. cornea

D. iris muscles

**Answer: A**



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**166.** Skeletal muscles are controlled by

- A. sympathetic nerves
- B. parasympathetic nerves
- C. somatic nerves
- D. autonomic nerves

**Answer: C**



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**167.** In the matrix lies the bone cells, called

Or

Cells that maintain marrow cells are called

- A. osteocytes
- B. chondrocytes
- C. osteoclasts

D. none of these

**Answer: A**

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**168.** Match the columns :

Column I	Column II
1. Cuboidal	(a) Epidermis of skin
2. Ciliated	(b) Inner lining of blood vessels
3. Columnar	(c) Inner surface of gall bladder
4. Squamous	(d) Inner lining of fallopian tube
5. Keratinized	(e) Lining of pancreatic duct

A. 1-E, 2-D, 3-B, 4-C, 5-A

B. 1-C, 2-D, 3-E, 4-B, 5-A

C. 1-C , 2-D, 3-C, 4-B, 5-A

D. 1-C, 2-D, 3-E, 4-A, 5-B

**Answer: C**

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**169.** Myelin of nerve fibres of CNS is produced and maintained by

- A. oligodendrocytes
- B. astrocytes
- C. microglia
- D. Schwann cells

**Answer: D**



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**170.** The type of connective tissue that is associated with the umbilical cord is

- A. areolar connective tissue
- B. jelly-like connective tissue
- C. adipose connective tissue

D. reticular connective tissue

**Answer: B**



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**171.** Note the following (A) It forms the lining of the cavities of alveoli of the lungs

(B) it forms the lining of wet surfaces like

buccal cavity and oesophagus

(C) it occurs in the ducts of sweat glands

(D) it forms the lining of salivary glands and

sweat glands

(E) it is a loose connective tissue

Which of the above are associated with stratified simple epithelial tissue ?

A. A and D

B. B and C

C. C and A

D. D and E

**Answer: A**



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**172.** The wall of the internal organs such as blood vessels, stomach and intestine contains which type of muscle tissue?

A. Smooth muscle fibre

B. cardiac muscle Fibre

C. Skeletal muscle fibre

D. Neural tissue

**Answer: A**



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173. The matrix of bone and cartilage can be distinguished by the presence of

- A. haversian canal
- B. lacuna
- C. chromatophores
- D. adipose cells

**Answer: A**



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174. Multi-lobed nucleus and granular cytoplasm are characteristics of which of the WBCs

- A. neutrophils
- B. monocytes
- C. lymphocytes

D. eosinophils

**Answer: A**



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**175.** In human brain, number of glial cells is

- A. is significantly greater than number of neurons
- B. is significantly lower than the neurons
- C. roughly equals the number of Schwann cell
- D. roughly equals the number of neurons

**Answer: D**



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176. Which type of epithelium is involved in a function to move particles or mucus in specific direction

- A. ciliated epithelium
- B. columnar epithelium
- C. Squamous epithelium
- D. cuboidal epithelium

**Answer: A**



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177. The cells lining the blood vessels belongs to the category of :

- A. Connective tissue
- B. smooth muscle tissue
- C. Squamous epithelium
- D. columnar epithelium

**Answer: C**



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**178.** The non-keratinized stratified squamous epithelium is present in

- A. epidermis of skin of hand and vertebrate
- B. vagina and cervix
- C. oral cavity
- D. vagina, cervix and oral cavity

**Answer: D**



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**179.** People who have migrated from the planes to an area adjoining Rohtang pass about six months back

A. have more RBCs and their haemoglobin

has a lower binding affinity to  $O_2$ .

B. are not physically fit to play games like

football

C. suffer from altitude sickness with symptoms like nausea, fatigue ,

etc .

D. have the usual RBC count but their haemoglobin has very high

binding affinity

**Answer: A**



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**180.** Supportive skeletal structures in the human external ears and nose tip are of

A. Ligaments



B. Areolar tissue

C. Bone

D. Cartilage

**Answer: D**



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**181.** The cell membranes of adjacent cells are fused at

A. macule adherens

B. zonula adherens

C. zonula occludens

D. nexus

**Answer: C**



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**182.** Bone is mainly composed of

- A. iron and phosphorus
- B. sulphur and calcium
- C. calcium and phosphorus
- D. calcium and magnesium

**Answer: C**



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**183.** Simple storage protein that coagulates upon heating but remains soluble in dilute salt solution is correctly exemplified by

- A. globulin
- B. albumin
- C. histone
- D. collagen

**Answer: B**



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**184.** 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**



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**185.** Chose the correctly matched pair:

- A. Cartilage - Loose connective tissue
- B. Tendon - Specialized connective tissue
- C. Adipose tissue - Dense connective tissue
- D. Areolar tissue - Loose connective tissue

**Answer: D**

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**186.** The function of the gap junction is to

- A. performing cementing to keep neighbouring cells together .
- B. facilitate communication between adjoining cells by connecting the cytoplasm for rapid transfer of ions, small molecules Itbr. And some large molecules
- C. separate two cells from each other

D. stop substance from leaking across a tissue

**Answer: B**



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**187.** Which type of tissue correctly matches with its location ?

- |    | Tissue                  | Location          |
|----|-------------------------|-------------------|
| A. | Areolar tissue          | Tendons           |
| B. | Transitional epithelium | Tip of nose       |
| C. | Cuboidal epithelium     | lining of stomach |
| D. | Smooth muscle           | Wall of intestine |

**Answer: D**



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**188.** Name the blood cells, whose reduction in number can cause clotting disorder, leading to excessive loss of blood from the body.

- A. Erythrocytes
- B. Leucocytes
- C. Neutrophils
- D. Thrombocytes

**Answer: D**



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**189.** Serum differs from blood in

- A. lacking globulins
- B. lacking albumins
- C. lacking clotting factors
- D. lacking antibodies

**Answer: C**



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**190.** Adult human RBCs are enucleate. Which of the following statement

(s) is/are most appropriate explanation for this feature ?

(1) They do not need to reproduce

(2) They are somatic cells

(3) They do not metabolise

(4) All their internal space is available for oxygen transport.

A. Only (iv)

B. Only (i)

C. (i), (iii) and (iv)

D. (ii) and (iii)

**Answer: A**



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**191.** Myelin sheath is produced by

or

Myelin of the nerve fibres of the central nervous system is produced and maintained by

- A. Schwann cells and Oligodendrocytes
- B. Astrocytes and Schwann cells
- C. Oligodendrocytes and Osteoclasts
- D. Osteoclasts and Astrocytes

**Answer: A**



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