

Total No. of printed pages = 3

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2023

D.Pharm. I Year End-Term Examination

HUMAN ANATOMY AND PHYSIOLOGY

Full Marks – 80

Time – Three hours

The figures in the margin indicate full marks for the questions.

1. Answer the following questions. (20 × 1 = 20)
- (i) Elastic Cartilage can be seen in:
- (a) Limb Bones
 - (b) Pinnae of mammals
 - (c) Trachea
 - (d) None of the above
- (ii) Which of the following is a moving skull bone?
- (a) Frontal
 - (b) Mandible
 - (c) Nasal
 - (d) All the above
- (iii) What is term used for the total volume of air accommodated in the lungs at the end of a forced inspiration?
- (a) Functional Residual capacity
 - (b) Vital Capacity
 - (c) Total lung Capacity
 - (d) Inspiratory capacity

[Turn over

- (iv) Which of the following enzymes is present in saliva?
- (a) Pepsin
 - (b) Trypsin
 - (c) Lactase
 - (d) Amylase
- (v) Adipose tissue is a type of _____ tissue in the human body.
- (a) Muscular
 - (b) Epithelial
 - (c) Connective
 - (d) Nervous
- (vi) The largest part of human brain is
- (a) Mid brain
 - (b) Cerebrum
 - (c) Cerebellum
 - (d) Hypothalamus
- (vii) Which hormone is responsible for the onset of puberty in females?
- (a) Prolactin
 - (b) Oxytocin
 - (c) Follicle Stimulating Hormone
 - (d) All of the above
- (viii) Junction between two nerves is called
- (a) Synapse
 - (b) Neuron
 - (c) Receptor
 - (d) Vesicles
- (ix) Bile is secreted from
- (a) Liver
 - (b) Pancreas
 - (c) Spleen
 - (d) Duodenum
- (x) Which hormone promotes cell division, protein synthesis?
- (a) ACTH
 - (b) GH
 - (c) ADH
 - (d) PTH

- (xi) Define Blood pressure.
- (xii) Write the various functions of spleen.
- (xiii) Define Tidal Volume and Vital Capacity.
- (xiv) Write the functions of RBCs and WBCs.
- (xv) What are the disorders of joints?
- (xvi) What are various parts of ear?
- (xvii) Define Parturition.
- (xviii) Define blood clotting and bleeding time.
- (xix) Write the functions of duodenum and jejunum.
- (xx) What are the various components of a cell?

2. Short answer questions : (10 × 3 = 30)

- (a) Write the physiology of Urinary System.
- (b) Write the functions of hypothalamus and basal ganglia.
- (c) Write about Bowman capsule.
- (d) Write a short note on menstruation.
- (e) Briefly describe the layers of skin with a diagram.
- (f) Define micturition. Write a note on clearance test.
- (g) Describe briefly about the basics of ECG.
- (h) Write in detail the mechanism of blood clotting with the names of factors.
- (i) Define the following with examples :
 - (i) Lymph
 - (ii) Joint
 - (iii) Neuron
- (j) Describe the structure and function of spleen.

3. Long answer questions. (6 × 5 = 30)

- (a) Write in detail about Renin Angiotensin System.
- (b) Write a short note on eye with diagram.
- (c) Define tissue. Write the subtypes with function and examples.
- (d) Write a short note on names and functions of Cranial Nerves.
- (e) Describe in detail about Thyroid gland and the hormones secreted by them.
- (f) Describe the mechanism involved in respiration.
- (g) Write about the stages of pregnancy.