

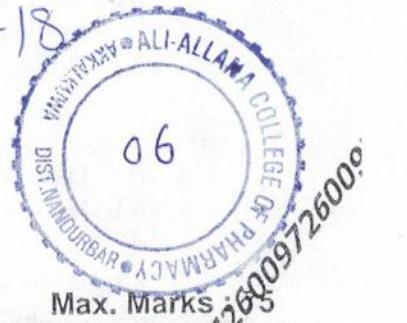
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Sum - 18



BP 201 T

## Human Anatomy and Physiology - II (712201)

P. Pages : 3

Time : Three Hours

## Instructions to Candidates :

- Do not write anything on question paper except Seat No.
- Graph or diagram should be drawn with the black ink pen being used for writing paper or black HB pencil.
- Students should note, no supplement will be provided.
- All questions are compulsory.
- Draw well labelled diagram wherever necessary.
- Figures to the right-indicate full marks.

1. Choose the proper alternative of the following.

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(1x20)

- a) The ----- is the functional unit of nervous system.  
 i) Neuron    ii) Neuroglia  
 iii) Nephron                                        iv) Hepatic lobule
- b) Villi present in  
 i) Kidney    ii) Heart  
 iii) Ileum    iv) Liver
- c) Which of these cells are not a type of neuroglia found in the CNS.  
 i) Astrocyte                                        ii) Schwan cells  
 iii) Oligodendrocytes                             iv) Microglia
- d) The lumen of GIT is lined with  
 i) Serosa    ii) Mucosa  
 iii) Submucosa                                     iv) Serosa
- e) Normal net filtration pressure is -----.  
 i) 125 mm Hg                                      ii) 145 mm Hg  
 iii) 55 mm Hg                                      iv) 10 mm Hg
- f) Neuroglial cell support & protect.  
 i) Muscle cell                                      ii) Glands  
 iii) Neuron    iv) Nephrons
- g) The midbrain, pons & medulla oblongata are housed in the  
 i) Diencephalon                                    ii) Brain stem  
 iii) Pineal gland                                    iv) Hypothalamus

- h) The outer layer of kidney, just internal to the fibrous capsule is the renal.
- i) Medulla    ii) Column
  - iii) Pelvis    iv) Cortex
- i) A short gap in the myelin sheath around a nerve fiber is called \_\_\_\_\_.
- i) Dendrite    ii) Axon terminal
  - iii) Node of Ranvier    iv) None of these
- j) Large intestine secretes large quantity of
- i) Sodium    ii) Bicarbonate
  - iii) Calcium    iv) Sulfate
- k) Food leaving the stomach is called \_\_\_\_\_.
- i) Bolus    ii) Rhyme
  - iii) Chyme    iv) Feces
- l) The nose, pharynx & associated structures are all the parts of the
- i) Respiratory division    ii) Upper respiratory system
  - iii) Lower respiratory system    iv) Bronchial tree
- m) \_\_\_\_\_ cells secrete surfactant that reduces the tendency for pulmonary alveoli to collapse.
- i) Type I Alveolar    ii) Macrophage
  - iii) Type II Alveolar    iv) All Alveolar
- n) The volume of air that can be exhaled during forced breathing in addition to tidal volume is.
- i) Residual volume    ii) Expiratory reserve volume
  - iii) Vital capacity    iv) Total lung capacity
- o) A fluid containing sperm
- i) Testosterone    ii) Bladder
  - iii) Semen    iv) CSF
- p) The testicles are protected by sac
- i) Urethra    ii) Anus
  - iii) Seminal vesicle    iv) Scrotum
- q) The male sex hormone.
- i) Anus    ii) Vas deference
  - iii) Prostate gland    iv) Testosterone
- r) The endocrine system is quicker than the nervous system.
- i) True    ii) False
- s) The posterior pituitary stores & secretes.
- i) ADH & oxytocin    ii) Estrogen & testosterone
  - iii) Adrenaline and insulin    iv) Aldosterone & cortisone

- t) Hypothyroidism in adult produces a condition called \_\_\_\_\_.  
 i) Cretinism                          ii) Acromegaly  
 iii) Pituitary Dwarfism            iv) Myxedema

2. Attempt any seven of the following.

- a) Explain structure & function of brain in detail.
- b) Describe anatomy & physiology of liver.
- c) Explain mechanism of respiration.
- d) Draw well labelled diagram of frontal section of kidney.
- e) Explain physiology of menstruation.
- f) Write a note on Diabetes mellitus.
- g) Describe protein synthesis.
- h) Write a note on salivary gland.
- i) Classify hormones & state mechanism of action of Hormone.

3. Attempt any two of the following.

- a) Explain anatomy, physiology & Histology of adrenal gland.
- b) Draw well labelled diagram of digestive system, describe phases of digestion,
- c) Explain anatomy, physiology of female reproductive organs.

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