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II - Sem

Seat Number

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K-18

लक्ष - 002

BP 201 T

## Human Anatomy and Physiology - II

(712201)

P. Pages : 3

Time : Three Hours

Max. Marks : 5

### Instructions to Candidates :

1. Do not write anything on question paper except Seat No.
2. Graph or diagram should be drawn with the black ink pen being used for writing paper or black HB pencil.
3. Students should note, no supplement will be provided.
4. All questions are compulsory.
5. Draw a well labelled diagram wherever necessary.

### 1. Solve all multiple choice questions.

20

- i) Motor neurons convey impulse from.....
  - a) Sensory organs to CNS
  - b) CNS to muscles and glands
  - c) Muscles and glands to CNS
  - d) None of these
- ii) The peripheral nervous system includes.....
  - a) All the neural tissue outside the CNS
  - b) All the neural tissue inside the CNS
  - c) All the peripheral tissue
  - d) None of these
- iii) The central nervous system consists of.....
  - a) Brain and spinal cord
  - b) All the neural tissue outside CNS
  - c) Motor neurons
  - d) Peripheral neurons
- iv) The somatic Nervous system controls.....
  - a) "Rest or Digest"
  - b) "Fight or Flight"
  - c) Controls involuntary response
  - d) Control voluntary movements
- v) A synapse is the region where neurons.....
  - a) Communicate with neurons
  - b) Communicate with other cells
  - c) Communicate with muscles
  - d) None of these
- vi) Neuroglial cells support and protect.....
  - a) Muscle cells
  - b) Glands
  - c) Neurons
  - d) Neurons

- vii) The endocrine system is quicker than the nervous system.  
 a) True b) False  
 c) None of these
- viii) The male sex hormone is.....  
 a) Vas Deferens b) Prostate gland  
 c) Estrogen d) Testosterone
- ix) The nose, pharynx and associated structures are all part of.  
 a) Respiratory division b) Upper respiratory division  
 c) Lower respiratory division d) Bronchial tree
- x) One of the accessory digestive organ is.....  
 a) Gastrointestinal tract b) Oral cavity  
 c) Stomach d) Gallbladder
- xi) The consistency of food is changed by the end of the processing in the stomach is known as.....  
 a) Chyle b) Chyme  
 c) Plyloric d) Chylatic
- xii) The respiratory system helps maintain the pH of the blood at.....  
 a) 7.2 b) 7.8  
 c) 7.4 d) 7.0
- xiii) The respiratory bronchioles are connected to larger spaces called.....  
 a) Alveolar ducts b) Alveolar septum  
 c) Alveolar space d) Alveolar membrane
- xiv) The Kidney have two distinctive parts.....  
 a) Tubular reabsorption and secretion  
 b) Cortex and medulla  
 c) Cortex and cerebellum  
 d) Cortex and Hypothalamus
- xv) The Kidneys secrete enzyme renin which helps to form.....  
 a) Angiotensin - I b) Angiotensin - II  
 c) Angiotensin - III d) Angiotensin - IV
- xvi) Juxtamedullary nephrons, together with surrounding blood vessels play an important role in.....  
 a) Concentrating blood and removing water  
 b) Concentrating plasma  
 c) Concentrating chyme  
 d) Concentrating urine and conserving water
- xvii) Vas deference carry sperm to he.....  
 a) Seminal residue and prostate gland  
 b) Seminal capsule  
 c) Epididymis  
 d) Cowper's gland



xviii) Uterus is place where.....

- a) Ovule is conducted to ovary
- b) Production of ova
- c) Embryo develop
- d) Ovule is conducted to fallopian tube

xix) The ovaries secrete the female sex hormones.....

- a) Testosterone and androgen
- b) Luteinizing Hormone and Inhibin
- c) Follicle-Stimulating Hormone and inhibin
- d) Estrogen and Progesterone

xx) The differences between the two sexes depend on the presence of a single chromosome.

- a) Y-chromosome
- b) X-chromosome
- c) Achromosome
- d) None of these

2. Solve **any two** questions.

- i) Describe anatomy, physiology and histology of adrenal gland. 10
- ii) Draw a well labelled diagram of urinary system and explain in detail the process of urine formation. 10
- iii) Explain anatomy, physiology of female reproductive system. 10

3. Solve **any seven**. 35

- i) Explain mechanism of respiration.
- ii) Write a note on salivary gland.
- iii) Explain in detail the digestion of fats.
- iv) Comment on Renin-Angiotensin System.
- v) Write a note on neuron with diagram.
- vi) Comment on digestion of carbohydrates.
- vii) Explain the structure of Human Sperm.
- viii) Describe anatomy and physiology of Liver.
- ix) Write a note on synaptic neurotransmission.

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