

23242

3 Hours / 80 Marks



20114

Seat No.

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- Instructions* –
- (1) All Questions are Compulsory.
 - (2) Answer each next main Question on a new page.
 - (3) Illustrate your answers with neat sketches wherever necessary.
 - (4) Figures to the right indicate full marks.
 - (5) Assume suitable data, if necessary.
 - (6) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

Marks

1. Attempt any SIX of the following:

30

- a) Describe Internal structure of the heart with a diagram.
- b) Define joint and classify. Name the bones of axial skeleton.
- c) Define blood. Describe it's composition and function.
- d) Give composition and function of saliva and write any six functions of liver.
- e) Describe the physiology of urine formation. Draw a well labelled diagram of nephron.
- f) Draw a saggital section of eye and explain it's parts.
- g) Describe the structure of spinal cord with neat and labelled diagram.

2. Attempt any TEN of the following:

30

- a) Explain nervous tissue.
- b) Which part of the cell is called as power house of cell? Why?
- c) Define anemia. Explain it's types.
- d) Define the term
 - i) Cardiac output
 - ii) Blood pressure
 - iii) Stroke volume
- e) Explain structure and function of lymph node.
- f) Write composition and function of pancreatic juice.
- g) Define the term
 - i) Tidal volume
 - ii) Residual volume
 - iii) Vital capacity
- h) Describe menstrual cycle.
 - i) Which gland is called as endocrine and exocrine? Why?
 - j) Define hormone. Enlist all the endocrine glands with their hormones in the body.
 - k) Write the effect of parasympathetic stimulation on
 - i) Eye
 - ii) Salivary gland
 - iii) Urinary bladder

P.T.O.

**3. Attempt ALL of the following:**

- a) Name the 2nd cranial nerve.
 - b) The blood vessel which carry oxygenated blood from the lung to heart is _____.
 - c) Name the muscles of respiration.
 - d) Which hormone is secreted by testis?
 - e) Name the four fundamental taste.
 - f) Which neurotransmitter is responsible for muscle contraction?
 - g) Name the bones of elbow joint.
 - h) What are heart sound?
 - i) Define anatomy and physiology.
 - j) Name the fundamental tissues of the body.
 - k) Structural and functional unit of kidney is _____.
 - l) Name the bones of cranium.
 - m) The fertilization in female takes place in
 - i) Uterus
 - ii) Vagina
 - iii) Fallopian tube
 - iv) Ovary
 - n) Which of the following is property of skeletal muscle?
 - i) Muscle tone
 - ii) Muscle contraction
 - iii) Muscle fatigue
 - iv) All of the above
 - o) Organ of corti helps in
 - i) Hearing
 - ii) Balancing
 - iii) Vision
 - iv) All of the above
 - p) Exchange of gases at the cellular level in lungs and tissue is described as
 - i) Inspiration
 - ii) Internal respiration
 - iii) External respiration
 - iv) All of the above
 - q) _____ is the inner most nervous coat of the eye.
 - r) Which of following function belongs to bile juice?
 - i) Laxative action
 - ii) Fat digestion
 - iii) Buffer action
 - iv) All of the above
 - s) The term 'Proximal' refers to
 - i) Towards the front of body
 - ii) Towards the back of body
 - iii) The upper part nearest to the point of attachment
 - iv) In the midline
 - t) Write any two functions of 'CSF'.
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