



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.

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1. Attempt any SIX of the following:
- a) Describe Internal structure of the heart with a diagram. Marks
 - b) Define joint and classify. Name the bones of axial skeleton. 30
 - c) Define blood. Describe it's composition and function. f
 - d) Give composition and function of saliva and write any six functions of liver. x
 - e) Describe the physiology of urine formation. Draw a well labelled diagram of nephron. x
 - f) Draw a saggital section of eye and explain it's parts. x
 - g) Describe the structure of spinal cord with neat and labelled diagram. x

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2. Attempt any TEN of the following:
- a) Explain nervous tissue. 30
 - 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 <https://pharmacyindia.co.in/>
 - 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 <https://pharmacyindia.co.in/>
 - i) Tidal volume
 - ii) Residual volume
 - iii) Vital capacity
 - h) Describe menstrual cycle. <https://pharmacyindia.co.in/>
 - 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

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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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