

12425

03 Hours / 80 Marks



0809

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) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

Marks

1. **Attempt any EIGHT of the following:** **16**
 - a) Enlist different types of connective tissue.
 - b) What is articulation? Give two examples of synovial joint.
 - c) Give the functions of C.S.F.
 - d) Give functions of blood.
 - e) Define:
 - i) Digestion
 - ii) Absorption
 - f) Name different endocrine glands of the body.
 - g) Enlist different cell organelles.
 - h) Give functions of middle ear.
 - i) Define hormone. Name the endocrine gland which secretes calcitonin hormone.
 - j) Draw well labelled diagram of epidermis.
 - k) Name accessory organs of digestive system.
 - l) What is placenta? Write its function.

2. **Attempt any FOUR of the following:** **12**
 - a) Define cardiac cycle. Describe various events of the same.
 - b) Explain the role of insulin and glucagon in the body.
 - c) What is reflex action? Explain reflex arc.
 - d) What is bile? Where is it stores. Write its function.
 - e) Write classification and function of W.B.C.
 - f) Explain Renin-Angiotensin-Aldosterone system.

3. **Attempt any FOUR of the following:** **12**
 - a) Describe pulmonary circulation with the help of neat diagram.
 - b) What are rods and cones present in eye? Write their function.
 - c) Define lymph. Write the functions of lymph node.
 - d) Explain how intercostal muscles and diaphragm is helpful in respiration.
 - e) What is synapse? Explain the mechanism of impulse transmission with a suitable diagram.
 - f) Enlist male and female sex hormones. Write functions of male sex hormones.

P.T.O.

**4. Attempt any FOUR of the following:**

- a) Give the meaning of
 - i) Dislocation
 - ii) Fracture
 - iii) Arthritis
- b) List abnormal constituents of urine and describe their clinical significance.
- c) Name hormones of adrenal cortex and mention their functions.
- d) Draw well labelled diagram of T.S. of spinal cord.
- e) Describe different parts of large intestine.
- f) Name the cartilages of Larynx. Describe functions of Larynx.

5. Attempt any FOUR of the following:

- a) Enlist parts of central nervous system and give the functions of cerebrum.
- b) Explain following terms:
 - i) Atherosclerosis
 - ii) Angina Pectoris
 - iii) Myocardial infraction
- c) Describe digestion of carbohydrates.
- d) Enlist the functions of skin and explain how skin regulates body temperature.
- e) Define and give normal value of:
 - i) Tidal volume
 - ii) Vital capacity
 - iii) Residual volume
- f) Describe structure and functions of uterus.

6. Attempt any FOUR of the following:

- a) What is portal circulation. Name blood vessels supplying blood to
 - i) kidney
 - ii) stomach
 - iii) diaphragm
 - b) Write the composition and functions of saliva.
 - c) What will be the effect of stimulation of sympathetic system on:
 - i) Sweat glands
 - ii) Salivary glands
 - iii) Heart
 - iv) Bronchial smooth muscle
 - d) Explain with example feedback mechanism of secretion of hormones.
 - e) What is anemia? Describe different types of it.
 - f) Define anuria and explain process of urine formation.
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