

13046

21718

3 Hours / 100 Marks

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 TEN of the following: **20****
- a) Explain the structure of the cell with a suitable diagram?
 - b) Define Tissue. Explain the functions of Epithelial Tissues?
 - c) Explain cardiac cycle?
 - d) Explain the factors affecting Blood pressure?
 - e) Discuss the composition of saliva and explain the types of salivary gland?
 - f) Why pancreas is called Dual organ? Explain in detail.
 - g) Name the Endocrine organs? Explain the secretions of posterior lobe of pituitary gland?
 - h) Why is mitochondria called as power house of the cell?
 - i) Explain the structure of arteries with a suitable diagram?
 - j) Explain the coverings of the Brain?
 - k) Name the Bones of lower limb?

P.T.O.

- l) Discuss about H.I.V. infection?
- m) Name the different organs of the male reproductive system.
- n) Explain the Relationship between pulmonary and systemic circulation?

2. Attempt any FOUR of the following: 16

- a) Explain the Mechanism of Respiration.
- b) Describe the structure of Tooth and Give its function.
- c) Explain cell cycle.
- d) How digestion and absorption of carbohydrates is done in the body. Explain in detail.
- e) Explain the role of oestrogen and progesteron in body.
- f) Discuss the phases of Menstrual cycle.

3. Attempt any TWO of the following: 16

- a) Explain the secretions of Thyroid gland?
- b) Name the different types of tissues? Discuss any one in detail.
- c) Enumerate different sense organs with their functions.

4. Attempt any FOUR of the following: 16

- a) What is CSF? Write its composition and function?
- b) What are the different types of movements of the cell.
- c) Give the mechanism of tissue repair.
- d) Give the names of cranial nerves and its functions.
- e) Explain lung volumes?
- f) Name the organs of Alimentary canal? Explain the functions of mouth?

5. Attempt any FOUR of the following:**16**

- a) Explain the structure of Larynx?
- b) Discuss the functions of Liver?
- c) Name the secretions of Adrenal gland with their functions.
- d) Describe the process of growth of bone?
- e) Explain universal donor and universal recipient Blood group.
- f) Explain the role of skin in temperature regulation?

6. Attempt any TWO of the following:**16**

- a) Discuss in detail cerebrum and its functions?
 - b) Enlist the hormones secreted by pituitary gland. Describe the hormones of anterior pituitary gland.
 - c) (i) Draw a well labelled diagram of heart.
(ii) Write structure and functions of ribosomes.
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