

# 17436

**15116**

**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.

**Marks**

1. **Attempt any TEN of the following :** **20**
- Define cell and tissue.
  - Name blood groups of ABO system.
  - What are function of mitochondria and golgi bodies ?
  - Define pulse.
  - Name the parts of respiratory tract.
  - Define Respiratory rate and Tidal volume.
  - Composition of saliva.
  - Name different organs of excretion.
  - Describe morphology of sperm.
  - Name special sense organs.
  - Define endocrine gland. Name any two glands.
  - Function of eye.
  - Name sesamoid bones.
  - What is function of gall bladder ?

P.T.O.

- 2. Attempt any FOUR of the following :** **16**
- a) What are functions of ADH ?
  - b) Describe structure of nerve cell.
  - c) Draw a diagram of cell.
  - d) What are functions of blood ?
  - e) Describe valves of heart and their function.
  - f) Describe anatomy of lungs.
- 3. Attempt any FOUR of the following :** **16**
- a) Describe anatomy of kidneys.
  - b) Describe anatomy of male reproductive system.
  - c) Name the hormones of supra-renal gland and state their functions.
  - d) Give composition and functions of pancreatic juice.
  - e) Describe Rh system.
  - f) How hearing takes place ?
- 4. Attempt any FOUR of the following :** **16**
- a) How will you estimate Haemoglobin by Sahli's method ?
  - b) Which factors affect blood pressure ?
  - c) What happens in hyperactivity of thyroid gland ?
  - d) Describe mechanism of respiration.
  - e) Describe process of circulation.
  - f) How image formation takes place ?

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

- a) Name the instruments used in digestive system. Describe any one of it.
- b) Describe structure of female reproductive system.
- c) List instruments related to urinary system, mention their functions.
- d) What is role of insulin in controlling blood sugar level ?
- e) Describe structure of skin.
- f) Describe different lobes of cerebrum and their functional areas.

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

- a) Describe formation of urine.
  - b) Describe functions oestrogen, progesterone and testosterone.
  - c) Name instruments related to heart. What are their functions ?
  - d) Classify bone with examples. What are the functions of bones ?
  - e) Classify joints with examples. Which are different types of movements occur at joints ?
  - f) Name the instruments used for lung functions tests. What is their role ?
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