

0809

21819

3 Hours / 80 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 EIGHT of the following:** **16**
- Define tissue. Name fundamental tissues of the body.
 - State the functions of plasma proteins.
 - Give the functions of skeleton.
 - Name the arteries supplying blood to liver, intestine diaphragm and kidneys.
 - Draw a neat labeled diagram of L.S of Kidney.
 - Compare the anatomy of sympathetic nervous system with that of parasympathetic nervous system.
 - Give functions of Bile.
 - Why pituitary gland is known as master gland.
 - Name different organs of respiratory system.
 - Describe Neuro-muscular junction in short.
 - Explain how skin helps in maintaining body temperature.
 - Define: Anatomy and Physiology.

P.T.O.

- 2. Attempt any FOUR of the following:** **12**
- a) Discuss physiology of menstrual cycle.
 - b) Define endocrine gland. Enlist endocrine glands of human body.
 - c) Describe composition and functions of Gastric juice.
 - d) What is Hypothalamus? Give its functions.
 - e) Discuss the physiology of muscular contraction.
 - f) Explain the process of urine formation.
- 3. Attempt any FOUR of the following:** **12**
- a) Describe physiology of respiration.
 - b) Describe in brief the cardiac cycle.
 - c) What are lymph nodes. Give their functions.
 - d) Discuss in brief the process of coagulation of blood.
 - e) Name any six cranial nerves with their functions.
 - f) Give composition and function of saliva.
- 4. Attempt any FOUR of the following:** **12**
- a) Describe the structure and function of mitochondria.
 - b) Write functions and classification of WBC's.
 - c) Classify joints with examples of each class.
 - d) Describe the terms Angina Pectoris and Stenosis.
 - e) Discuss different functions of kidneys.
 - f) Give the microscopic structure of skeletal muscles.

5. Attempt any FOUR of the following:**12**

- a) Name different organs of male reproductive system with their functions.
- b) What is Reflex action? Draw a neat labeled structure of Reflex arc.
- c) Explain the terms-vital capacity, tidal volume and residual volume.
- d) Describe digestion of carbohydrates.
- e) Explain the terms universal donor and universal recipient.
- f) Describe different layers of stomach.

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

- a) Describe microscopic structure of the bone.
 - b) Explain role of haemoglobin in the process of respiration.
 - c) Name the abnormal constituent of urines with name of disease they signify.
 - d) Discuss choroid, ciliary body and iris of eye.
 - e) Discuss structural and functional differences between artery and vein.
 - f) Explain in short, factors affecting on Heart rate.
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