22347

23124 3 Hours / 70 Marks

Seat No.

Instructions - (1) All Questions are Compulsory.

- (2) Illustrate your answer with neat sketches wherever necessary.
- (3) Figures to the right indicate full marks.
- (4) Assume suitable data, if necessary.
- (5) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

Marks

10

1. Attempt any FIVE of the following:

- a) State the function of nucleus and ribosomes.
- b) List any two diseases related to cardiovascular system.
- c) List any four respiratory parameters.
- d) Draw the sketch of urinary system and label it.
- e) Give the function of estrogen.
- f) Draw the structure of neuron and label it.
- g) Identify the following instruments related to digestive system.
 - i) EEG machine
 - ii) Endoscopy
 - iii) Spirometer
 - iv) Ultrasonography machine.

2.

a) Explain the conduction system of heart with a neat diagram.

Attempt any THREE of the following:

b) Describe the mechanism of respiration. c) Identify the use of following instruments -Stethoscope i) ECG machine. ii) List any two harmones secreated by male reproductive system d) and give their function. 3. Attempt any THREE of the following: a) Blood group AB is the universal acceptor. Justify it and name the universal donor blood type. b) Draw the sketch of female reproductive system and give the function of ovaries. c) Describe the composition of blood and state the function of each. d) List and explain any four properties of cardiac muscle. 4. Attempt any THREE of the following: Select the following instrument related to respiratory system a) and give it's function i) Spirometer ii) ECG machine iii) Ventilator Sphygmomanometer iv) Identify the following disease related to digestive system. Give b) the function of large intestine i) Ulcers Cardiac arrest ii) iii) Chrome Diarrhea iv) Gastroenteritis v) Epilepsy vi) Asthma

Marks

12

12

12

Marks

- c) Identify the location of the following glands
 - i) Thyroid gland
 - ii) Adrenal gland
 - iii) Pineal gland
 - iv) Pancreas
- d) List any four functions of bone.
- e) Describe anatomy of eye and the process of image formation.

5. Attempt any <u>TWO</u> of the following:

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- a) Explain the mechanism of formation of urine.
- b) Draw the sketch of ear with indicating different parts of it and give the function of auditory nerve.
- c) Describe with sketch the function of spinal cord.

6. Attempt any <u>TWO</u> of the following:

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- a) Explain with sketch the structure of skin.
- b) Draw the sketch of respiratory system and give the function of different part of it.
- c) Compare CNS and ANS. (Any three points)