

**[Time: 3 Hours]**

**[ Marks:70]**

Please check whether you have got the right question paper.

- N.B:**
1. All questions are compulsory
  2. Figures to the right indicates full marks
  3. Draw neat and labeled diagram wherever necessary

- Q.1 A) Answer the following 12
- i) Define "Total Peripheral Resistance".
  - ii) How primary hypertension is different from secondary hypertension?
  - iii) Define "Glomerular Filtration Rate".
  - iv) What are the causes of renal calculi?
  - v) What is deglutition? What are various stages of deglutition?
  - vi) Define functions of large intestine?
- B) Fill in the Blanks 3
- i) ----- is also known as pacemaker of heart.
  - ii) ----- are the functional units of the kidneys.
  - iii) The absorptive cells of the small intestine synthesize digestive enzymes, called ----- enzymes, and insert them in the plasma membrane of the microvilli.
- Q.2 A) Answer ANY TWO of the following 8
- i) Draw a neat and labeled diagram of section of testes.
  - ii) Write a note on process of oogenesis.
  - iii) Discuss in details female reproductive cycle.
- B) 3
- Answer ANY ONE of the following
- i) Write a note on Dysmenorrhea.
  - ii) Discuss secondary sexual characteristic in males and females.
- Q.3 A) Answer ANY TWO of the following 8
- i) Draw a neat and labeled diagram showing Pericardium and layers of heart wall.
  - ii) What is cardiac cycle. Discuss stages of cardiac cycle.
  - iii) Enlist valves present in heart and discuss their function.
- B) 3
- Answer ANY ONE of the following
- i) What is congestive Cardiac Failure? Discuss its pathophysiology.
  - ii) Write a note on Angina Pectoris.

- Q.4 A) Answer ANY TWO of the following 8
- i) Draw neat and labeled diagram showing internal view of renal corpuscle.
  - ii) Explain the process of urine formation.
  - iii) Discuss on anatomy and secretions of pancreas.
- B) Answer ANY ONE of the following 3
- i) Write a note on hormonal Regulation of Tubular Reabsorption and Tubular Secretion.
  - ii) Explain in detail the causes, symptoms and treatment of glomerulonephritis.
- Q.5 A) Answer ANY TWO of the following 8
- i) Discuss anatomy and physiology of small intestine.
  - ii) Write a note on Mechanical and Chemical Digestion in the Stomach.
  - iii) Discuss anatomy and function of gallbladder.
- B) Answer ANY ONE of the following 3
- i) Write a note on peptic ulcer.
  - ii) Discuss pathophysiology of Inflammatory Bowel Diseases.
- Q.6 A) Answer ANY TWO of the following 8
- i) Discuss pathophysiology of Ischemic Heart Disease.
  - ii) Write a note on regulation of blood pressure.
  - iii) Describe the process of defecation reflex.
- B) Answer ANY ONE of the following 3
- i) Write a note on coronary circulation.
  - ii) Discuss anatomy of artery.

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