

Time: 3 hours

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

Total Marks 70

- Q1. A) Answer the following 12
- i. Define 'Pre load and After load'
 - ii. What is Hypertension?
 - iii. Define 'Glomerular Filtration Rate'
 - iv. Write a short note on Sodium as an electrolyte.
 - v. What is deglutition? What are the various stages of Deglutition?
 - vi. Give an account of pathophysiology of Hepatitis
- B) Fill in the Blanks 3
- i. _____ are the functional units of kidney.
 - ii. _____ cells secretes pepsinogen and gastric lipase.
 - iii. The scientific study of normal heart and the diseases associated with is known as _____
- Q2. A) Answer **ANY TWO** of the following 8
- i. Write a note on process of Oogenesis
 - ii. Draw a neat and labelled diagram of section of Testis
 - iii. Enlist the hormones involved in Female Reproductive System and describe their physiological role.
- Q2. B) Answer **ANY ONE** of the following 3
- i. Write a note on Sexually Transmitted Diseases
 - ii. Give an account of pathophysiology of Infertility
- Q3. A) Answer **ANY TWO** of the following 8
- i. What is Cardiac Cycle? Discuss stages of Cardiac Cycle
 - ii. Give the difference between arteries and veins
 - iii. Draw a neat and labelled diagram showing internal structure of Heart
- Q3. B) Answer **ANY ONE** of the following 3
- i. Write a note on Congestive Heart Failure
 - ii. Describe Cardiac Arrhythmia
- Q4. A) Answer **ANY TWO** of the following 8
- i. Describe the process of re-absorption and secretion in proximal convoluted tubule
 - ii. Draw a neat labelled diagram of pancreas. Enlist the functions of pancreas
 - iii. Write detailed note on body fluid compartment

- Q4. B) Answer **ANY ONE** of the following 3
- i. Write a note on pathophysiology of Renal Calculi
 - ii. Write a note on Urinary Tract Infection
- Q5. A) Answer **ANY TWO** of the following 8
- i. Draw neat and labelled diagram showing histology of Small Intestine
 - ii. Explain the phases of gastric secretion in detail
 - iii. Describe the process of digestion and absorption of carbohydrates across the GIT
- Q5. B) Answer **ANY ONE** of the following 3
- i. Write a note on pathophysiology of Peptic Ulcer
 - ii. Describe with a suitable diagram anatomy of Large Intestine
- Q6. A) Answer **ANY TWO** of the following 8
- i. Describe neural and hormonal regulation of gastric and intestinal physiology
 - ii. Write a note on Baroreceptor and Chemoreceptor reflex
 - iii. Discuss pathophysiology of Atherosclerosis
- Q6. B) Answer **ANY ONE** of the following 3
- i. Differentiate between stable and unstable Angina
 - ii. What is ECG? Explain different waves with its function
