

- N.B. : (1) **All** questions are **Compulsory**
 (2) Answer **all** sub questions **together**.
 (3) **Draw neat labeled diagram wherever necessary.**

- Q.1 A) Answer the following 16
- Write the different chambers of heart.
 - Explain systemic circulation
 - Enlist names of taste buds of tongue.
 - Enlist six basic processes of digestive system.
 - Enlist functions of Kidney.
 - Enlist accessory sex organs of male reproductive system.
 - Enlist phases of gastric digestion.
 - Enlist the functions of small intestine.
- Q.1 B) Answer the following 4
- _____ is the scientific study of the anatomy, physiology and pathophysiology of kidney.
 - Organisms produce offspring by making germ cells called as _____.
 - Heart lies in the _____.
 - The organs involved in the breakdown of food are collectively called as _____.
- Q.2 A) Answer **any TWO** of the following 8
- Write in detail about layers of heart wall.
 - Explain cardiac conducting system.
 - Write a note on cardiac output.
- Q.2 B) Answer **any ONE** of the following 4
- Write a short note on Hypertension.
 - Write a short note on cardiac arrhythmia.
- Q.3 A) Answer **any TWO** of the following 8
- Explain chemical and mechanical digestion of food in mouth.
 - Write anatomy of stomach along with its functions.
 - Write the composition and functions of pancreatic juice.
- Q.3 B) Answer **any ONE** of the following 4
- Explain pathophysiology of reflux esophagitis.
 - Write a short note on Jaundice.
- Q.4 A) Answer **any TWO** of the following 8
- Explain process of glomerular filtration.
 - Write hormonal regulation in process of tubular reabsorption and secretion.
 - Draw neat labeled diagram of Nephron.
- Q.4 B) Answer **any ONE** of the following 4
- Write a short note on UTI.
 - Write a short note on Kidney stone.
- Q.5 A) Answer **any TWO** of the following 8
- Write in detail about various ducts involved in male reproductive system.
 - Draw neat labeled diagram of Sperm and explain spermatogenesis.
 - Write a note on phases of menstrual cycle.
- Q.5 B) Answer **any ONE** of the following 4
- Write a note on STD.
 - Write a note on dysmenorrhea.
- Q.6 A) Answer **any TWO** of the following 8
- Write in detail process of fluids and fluids compartment formation.
 - Explain concept of Acid-base balance in body.
 - Draw neat labeled diagram of Ovary.
- Q.6 B) Answer **any ONE** of the following 4
- Write a note on Ulcerative colitis
 - Draw neat labeled diagram of liver.