

2016-2017

Sem - III - CBGS - Reg -

APP-III

Second half - 2016

QP Code : 527300

(3 Hours)

[Total Marks : 70

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

1. (A) Answer the following 12
 (i) Define Iso-volumetric relaxation.
 (ii) Define 'ultra filtration'.
 (iii) Enlist the hormones affecting water balance.
 (iv) Define stroke volume and venous return.
 (v) Enumerate the causes of peptic ulcers.
 (vi) Name the salivary glands. State their functions.
- (B) Fill in the blanks: 3
 (i) -----segment of ECG may get elevated in myocardial infarction.
 (ii) Podocytes have-----which wrap around glomerular capillaries.
 (iii) -----stores, concentrates and delivers bile into duodenum.
2. (A) Answer Any Two: 8
 (i) Draw neat labelled diagram of section of ovary.
 (ii) Discuss in detail anatomy of testes.
 (iii) Explain the role of hormones in various states of sperm production.
- (B) Answer Any One: 3
 (i) Write a note on female infertility.
 (ii) Write a note on estrogen.
3. (A) Answer Any Two: 8
 (i) Explain the conduction system of heart.
 (ii) Discuss various factors regulating blood pressure.
 (iii) What is ECG? Explain various segments of ECG.
- (B) Answer Any One: 3
 (i) Define Congestive heart failure and discuss its signs and symptoms.
 (ii) Differentiate between artery and vein.

[TURN OVER]

4. (A) Answer Any Two: 8
- (i) Draw a neat labelled diagram of urinary system. Enlist the functions of renal system.
 - (ii) Draw a neat labelled diagram of filtration membrane. Define GFR.
 - (iii) Explain the process of urine formation.
- (B) Answer Any One : 3
- (i) Write a short note on glomerulonephritis
 - (ii) Write a short note on Body Buffer system
5. (A) Answer Any Two: 8
- (i) Draw neat labelled diagram of stomach. Enlist the digestive enzymes secreted in stomach.
 - (ii) Discuss the functions of liver and gall bladder.
 - (iii) Discuss the process of digestion of carbohydrates in the GIT.
- (B) Answer Any One: 3
- (i) Write short note on hepatitis.
 - (ii) Write short note on pancreatic juice.
6. (A) Answer Any Two: 8
- (i) Describe the anatomy and physiology of large intestine.
 - (ii) Discuss the structure of cardiac tissue. State the function of SA node.
 - (iii) Differentiate between pulmonary and systemic circulation.
- (B) Write short note on Any One: 3
- (i) Angina pectoris
 - (ii) Baro receptor reflex.
