

B. Pharm / Sem-III CBSGS KT 12/4/16
A.P.P-III

Q.P. Code : 24941

(3 Hours)

[Total Marks : 70

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

1. Answer the following :

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- (a) (i) Define : "Total Peripheral Resistance".
(ii) Define Tachy cardia. Enumerate types of tachycardia.
(iii) State the functions of Renal System
(iv) State the etiology of Glomerulonephritis
(v) What is "Deglutition".
(vi) What is liver cirrhosis and enlist its causes.
- (b) (i) _____ hypertension in the outcome of Hyperthyroidism 3
(ii) _____ increases the surface area of intestine.
(iii) _____ is an important buffer in intercellular fluid and urine.

2. (a) Answer any two :

8

- (i) Draw a neat labelled diagram of section of ovary showing follicular development.
(ii) Describe the events in spermatogenesis
(iii) Enlist the hormones involved in Female Reproductive System and describe their physiological role.

(b) Answer any one :

3

- (i) Draw a neat labelled diagram of section of uterus.
(ii) State the causes of sexually Transmitted Diseases (STDs).

3. (a) Answer any two :

8

- (i) Draw a neat labelled diagram of external structure of heart. State the physiological role of pericardium, myocardium and endocardium.
(ii) Define "Mean Arterial Blood Pressure". Discuss the factors affecting MABP.
(iii) Explain the conduction pathway of the heart.

(b) Answer any one :

3

- (i) Define "Primary Hypertension". State the risk factors for hypertension.
(ii) Differentiate between pulmonary and systemic circulation.

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4. (a) Answer any two : 8
- (i) Draw a neat labelled diagram of the "Endothelial Capsular Membrane". State the functions of this membrane.
 - (ii) Describe the process of reabsorption and secretion in proximal convoluted tubule.
 - (iii) Draw a neat labelled diagram of pancreas. Enlist the functions of pancreas.
- (b) Answer any one : 3
- (i) Write a note on pathophysiology of Renal Calculi.
 - (ii) Enlist the causes of Chronic Renal Failure.
5. (a) Answer any two : 8
- (i) Draw the structure of stomach. Enlist the glands found in stomach and state their functions.
 - (ii) Write a note on digestion and absorption of carbohydrates in the small Intestine.
 - (iii) Draw a neat labelled diagram of the large intestine. What is colitis ?
- (b) Answer any one : 3
- (i) Write short note on pancreatitis.
 - (ii) Name the salivary glands and state the composition of saliva.
6. (a) Answer any two : 8
- (i) State the effect of the following on cardiac rate and contractility :
 - A) Nor Epinephrine
 - B) Thyroxine
 - C) Calcium
 - D) Acetyl choline.
 - (ii) Enlist the Ischemic Heart Diseases. Give an account on Myocardial Infarction.
 - (iii) Draw a neat labelled diagram of the section of the liver.
- (b) Answer any one : 3
- (i) Discuss the functions of pulmonary arteries and pulmonary veins.
 - (ii) Explain "Action Potential" in cardiac myocyte.