

6 May 2013

Y.B. Pharm Sem (II) (B.U.) APP - II

Cont. 1092-13.

NJ-6502

(3 Hours)

[Total Marks : 70]

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

Answer the following :-

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- (i) Define "cardiac output".
 (ii) "Arteries are more elastic than veins" state "True" or "False", explain.
 (iii) What is the physiological function of juxta glomerular apparatus?
 (iv) What are the types of kidney stones and their compositions.
 (v) Define peristalsis and segmentation.
 (vi) Enlist the causes of hepatitis.

- (i) Coronary artery blockage can lead to _____ heart diseases. 3
 (ii) _____ ampulla releases both bile and pancreatic exocrine secretions into the duodenum.
 (iii) _____ is the predominant extra cellular cation which determines blood volume.

Q. Answer any two :-

8

- Describe the ovarian changes during menstrual cycle.
- Discuss the role of hormones in the process of spermatogenesis.
- Write a note on sexually transmitted diseases (STDs).

Q. Answer any one :-

3

- Draw a neat labelled diagram of section of testis showing seminiferous tubules.
- Write a note on spermogenesis.

Q. (a) Answer any two :-

8

- Draw a neat labelled diagram of the internal structure of heart.
- Distinguish between Arteries and Veins.
- Discuss the link between the cardiac cycle and ECG.

Q. (b) Answer any one :-

- Discuss the pathophysiology of hypertension.
- Write a note on neuronal control of heart rate.

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4. (a) Answer any two :-

- (i) Draw a neat labelled diagram of the capsular membrane. (Filtration)
- (ii) Describe the process of formation of concentrated urine.
- (iii) Enumerate the functions of liver.

(b) Answer any one :-

- (i) Describe the pathophysiology of acute renal failure.
- (ii) Discuss the etiology and symptoms of renal calculi.

5. (a) Answer any two :-

- (i) Draw a neat labelled diagram of pancreas and state its functions.
- (ii) Enumerate and discuss the various phases of digestion.
- (iii) Write a note on Inflammatory Bowel Diseases.

(b) Answer any one :-

- (i) What is the composition of bile ? What is its function ?
- (ii) Write a note on Reflux Esophagitis.

6. (a) Answer any two :-

- (i) Describe the conduction pathway of the heart.
- (ii) Define "Mean Arterial Blood Pressure". What are the factors affecting MABP ?
- (iii) Draw a neat labelled diagram of the small intestine. Discuss the functions of the small intestine.

(b) Answer any one :-

- (i) Write a note on cardiac arrhythmias.
- (ii) State the role of baroreceptors and chemoreceptors in regulation of blood pressure.
