Ref no: EX/PHARM/124/2017

Name of the Examination: B.PHARMACEUTICAL TECHNOLOGY FIRST YEAR SECOND SEMESTER 2017

Subject: Pharmaceutical Biology II

Times: Three hours

Full Marks: 100

Answer any five questions taking atleast one from each group.

GROUP - A

Answer the following questions:

Pituitary gland is called the master gland of our body – Justify the statement with detailed discussion of the role played by different pituitary hormones.
 Explain how the blood glucose homeostasis is maintained.
 (5 + 5 = 10)

2. How different gonadotrophic hormones maintained a synchronized mode of action during female menstrual cycle. How do thyroid and parathyroid hormone maintains the calcium homeostasis in our system? (5 + 5 = 10)

State the disease or the physiological consequences followed due to hyper and hypo secretion of these four hormones: a) growth hormone/somatostatin b) thyroid hormones c) calcitonin d) follicular stimulating hormone (FSH).

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B. Pharm. 1st Year 2nd Semester Examination 2017.

Time: 3 hours

Full Marks: 100

GROUP - B

- 4. Write down the function of nephron. With appropriate diagram discuss the structure of nephron. 8+12=20
- Z. Define glomerular filtration rate. Describe the different factors that control glomerular filtration.
 2+18=20
- 6. Write notes on (any two)-

10X2=20

- a. Micturation
- b. Mechanism of glucose reabsorption.
- c. Abnormal constituent of urine.

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Subject: PHARMACEUTICAL BIOLOGY II // ime: 3 hrs; Clearly mention the question number and part number for each answer.	ן; Full Marks:100
GROUP - C	
Write short note on the following topics:	
a) Internal structures for vein and arteries (with diagram).	(05)
b) Collateral circulation and its importance in human physiology	(04)
c) Factors regulating Venous return	(05)
d) Discuss about the function of 'Precapillary sphincters' and 'Sinusoids'	(06)
Q %)	
(a) Draw a labeled diagram for the internal structures of human heart (Layers of heart wa	lls. (06)
(b) Discuss about Heart Sounds and Electrical conduction through heart.	(06)
(c) Write in brief about Cardiac Cycle and Factors affecting "Cardiac Output"	(04+04)
Q 9)	
a) Discuss in brief about the salient features of "Fetal Circulation".	(06)
b) Write a short note on "Hypovolaemic Shock", "Arteriosclerosis" and "Varicose vein"	
c) Explain the electrical changes of heart that are denoted by ECG tracing. (PQRST)	(05)