

Roll No.....

Total No. of Printed Pages: 1

Total No. of Questions: [13]

**B. Pharmacy (Semester – 2<sup>nd</sup>)**  
**HUMAN ANATOMY AND PHYSIOLOGY-II**  
**Subject Code: BP 201T**  
**Paper ID: [17170108]**

**Time: 03 Hours**

**Maximum Marks: 75**

**Instruction for candidates:**

1. Section A is compulsory. It consists of 10 parts of two marks each.
2. Section B consist of 9 questions of 5 marks each. The student has to attempt any 7 questions out of it.
3. Section C consist of 3 questions of 10 marks each. The student has to attempt any 2 questions.

**Section – A**

**(2 marks each)**

Q1 Attempt the following:

- a. Name two hormones secreted by ovaries.
- b. Define renal failure.
- c. Enlist the functions of liver.
- d. Name two cranial nerves.
- e. What do you mean by depolarization, repolarization and hyperpolarization?
- f. What are enzymes required in transcription?
- g. What is basal metabolic rate? Write its significance.
- h. What is spermatogenesis?
- i. What is ATP?
- j. What are afferent & efferent nerves?

**Section – B**

**(5 marks each)**

- Q2 Write a brief note on protein synthesis.
- Q3 Explain the functions of insulin and glucagon.
- Q4 Explain various phases of menstruation cycle.
- Q5 What is reflex action? Describe physiology of reflex action.
- Q6 Draw a well-labeled diagram of nephron.
- Q7 What is cerebrospinal fluid? How is it formed? What are its functions?
- Q8 Explain the process of synaptic neurotransmission.
- Q9 Draw labeled diagram of male reproductive system.
- Q10 Write a note on mechanism of respiration.

**Section – C**

**(10 marks each)**

- Q11 Write down various hormones released from pituitary. Discuss their functions and various diseases associated with their hyper and hypo secretions.
- Q12 Enlist various parts of the gastrointestinal tract and discuss in detail about physiology of food digestion.
- Q13 Discuss structure of kidney and explain the process of urine formation by the kidneys.