

BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI
(END SEMESTER EXAMINATION)

CLASS: B.PHARM
BRANCH: PHARMACY

SEMESTER : I
SESSION : MO/19

SUBJECT: BP101T HUMAN ANATOMY AND PHYSIOLOGY I

TIME:3:00 HOURS

FULL MARKS: 75

INSTRUCTIONS:

1. The missing data, if any, may be assumed suitably.
 2. Before attempting the question paper, be sure that you have got the correct question paper.
 3. Tables/Data hand book/Graph paper etc. to be supplied to the candidates in the examination hall.
 4. This question paper consists of (03) three parts. Read the part wise instructions before attempting the questions.
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PART-I

Objective types questions [Instruction: Answer all questions]

- Q1. [10 x 2 = 20 Marks]
- A. Differentiate Active and Passive Transport.
 - B. Draw the structure of a Neuron.
 - C. Write the names and numbers of cranial bones.
 - D. Write the names of different types of Synovial joint.
 - E. Write the names and functions of sensory cranial nerves.
 - F. Write the names and percentage of different types of WBC.
 - G. Define Agglutination reaction.
 - H. Define the effect of sympathetic nervous system on cardiovascular system.
 - I. Define cardiac output.
 - J. Differentiate Artery and Vein.

PART-II

Short Answers

[Instruction: Answer seven out of nine questions]

[7 x 5 = 35 Marks]

- Q2. Describe the structure and functions of Epithelial tissue.
- Q3. Describe the structure and functions of Pectoral Girdle.
- Q4. Describe the mechanism of muscle contraction.
- Q5. Describe the process of Hemopoiesis in detail.
- Q6. Describe the structure and functions of Lymph Nodes.
- Q7. Explain the structure of Eye with the help of Diagram.
- Q8. Write the names and functions of Cranial nerves.
- Q9. Describe the elements of conduction system of Heart.
- Q10. Describe Different stages of Cardiac cycle in Detail.

PART-III

Long Answers

[Instruction: Answer two out of three questions]

[2 x 10 = 20 Marks]

- Q11. Define joints. Describe the structural and functional classification of joints along with types of possible movements.
- Q12. Describe the compositions and functions of Blood. Explain the mechanism of Blood Coagulation.
- Q13. Describe the structure and functions of Heart. Explain different types of blood circulations.