

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

CLASS: BPHARM  
BRANCH: PHARMACY

SEMESTER : II  
SESSION : SP/18

SUBJECT: BP2001 HUMAN ANATOMY AND PHYSIOLOGY

TIME: 3 HOURS

FULL MARKS: 60

INSTRUCTIONS:

1. The question paper contains 7 questions each of 12 marks and total 84 marks.
  2. Candidates may attempt any 5 questions maximum of 60 marks.
  3. The missing data, if any, may be assumed suitably.
  4. Before attempting the question paper, be sure that you have got the correct question paper.
  5. Tables/Data hand book/Graph paper etc. to be supplied to the candidates in the examination hall.
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- Q.1(a) Describe neuron and its parts. [2]  
Q.1(b) What are synapse & neurotransmitters. Give their types. [4]  
Q.1(c) Write the functions & functional areas of cerebral cortex. [6]
- Q.2(a) Discuss different layers of gastro intestinal tract. [2]  
Q.2(b) Discuss functions of stomach. [4]  
Q.2(c) Elaborate different phases of gastric juice secretion & its functions. [6]
- Q.3(a) Give the functions of gall bladder. [2]  
Q.3(b) How liver is involved in carbohydrate & protein metabolism? [4]  
Q.3(c) Elaborate the causes and types of acute hepatitis. [6]
- Q.4(a) Describe cycle of breathing. [2]  
Q.4(b) Elaborate how lungs perform defense functions. [4]  
Q.4(c) Give different methods of artificial respiration & when is it required. [6]
- Q.5(a) What main functions kidney perform? [2]  
Q.5(b) Write notes on DNA & Chromosomes. [4]  
Q.5(c) Draw a neat and labelled diagram of nephron. How micturition takes place? [6]
- Q.6(a) Classify hormones. [2]  
Q.6(b) Discuss thyroid glands and its hormones. [4]  
Q.6(c) Give different mechanisms of hormone action. [6]
- Q.7(a) Define and classify diabetes. [2]  
Q.7(b) What all effects are seen in diabetes mellitus? [4]  
Q.7(c) Describe the structure and functions of ovaries. [6]

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