

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

CLASS: BPHARM  
BRANCH: PHARMACY

SEMESTER: II  
SESSION: SP/2022

SUBJECT: BP201T HUMAN ANATOMY AND PHYSIOLOGY II

TIME: 3.00 Hours

FULL MARK: 75

**INSTRUCTIONS:**

1. The missing data, if any, may be assumed suitably.
  2. Tables/Data hand book/Graph paper etc. to be supplied to the candidates in the examination hall.
  3. 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. Fill the Blanks (Answer all)**

**(20 x 1 = 20 Marks)**

- A. Bilirubin is the breakdown product of-----
- B. Fats are absorbed in which part of the body-----
- C. Pruritis(itching) in jaundice is due to-----
- D. Average respiratory rate is-----breaths per minute
- E. Glomerular filtration rate is-----per minute
- F. Energy produced in body is measured in-----
- G. Name 2 specific hormones-----.
- H. Kidney is made up of-----
- I. Give functions of testes-----.
- J. Type I diabetes effects which age group-----
- K. Nervous tissue consists of -----& -----cells.
- L. Name 3 types of neurons-----.
- M. Which layer of meninges is called soft mother-----.
- N. T<sub>3</sub> & T<sub>4</sub> stands for----- &-----
- O. Name the salivary glands present in human-----
- P. Parietal cells of stomach secrete-----
- Q. Which part of small intestine is the largest in length-----.
- R. S-shaped region of large intestine is called-----.
- S. Where is stool stored till it is emptied by mass movement-----.
- T. Large intestine absorbs ----- &-----

**PART-II**  
**Short Answers**  
**(Instruction: Answer seven out of nine questions)**

(7 x 5 = 35 Marks)

- Q2. Describe micturition and RAAS system.
- Q3. Describe the functions of Thyroid & Pancreas glands.
- Q4. Give different methods of artificial respiration & when is it required.
- Q5. Discuss functions of stomach. Elaborate different phases of gastric juice secretion.
- Q6. Give different mechanisms of hormone action.
- Q7. Define metabolism, basal metabolic rate and functions of saliva.
- Q8. How liver is involved in carbohydrate, fat & protein metabolism.
- Q9. Explain different features of Medulla oblongata.
- Q10. Define peptic ulcers. Give complications associated with it.

**PART-III**  
**Long Answers**  
**(Instruction: Answer two out of three questions)**

(2 x 10 = 20 marks)

- Q11. Describe nerves, neuroglia, synapse and write the functions of cerebral cortex.
- Q12. Define and classify diabetes. What are long term complications of diabetes mellitus.
- Q13. Discuss non respiratory functions of respiratory tract.

:::::18/07/2022:::::