

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

**CLASS: BPHARM  
BRANCH: PHARMACY**

**SEMESTER: II  
SESSION: SP/2019**

**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. 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. Name the parts of nephron.
- B. What is crohn's disease.
- C. Discuss anabolism and catabolism.
- D. Name the layers of gastro intestinal tract.
- E. By which mechanisms hormones act.
- F. Define vital capacity and alveolar ventilation.
- G. How we measure the energy produced in the body.
- H. Define pineal glands.
- I. Give four examples of second messengers.
- J. Give the parts of brain.

**PART-II**

**Short Answers**

**(Instruction: Answer seven out of nine questions)**

(7 x 5 = 35 Marks)

- Q2. Define cerebrospinal fluid and give it's functions.
- Q3. How lungs play a role in defense mechanism.
- Q4. Discuss puberty in males.
- Q5. Show a section of ovary giving different stages of ovarian follicle.
- Q6. What hormones are secreted by anterior pituitary gland-name and discuss.
- Q7. Draw a thyroid gland and discuss hormones secreted by it.
- Q8. Summarize the functions of salivary glands.
- Q9. Elaborate the functions of liver.
- Q10. Outline the functions of large intestine.

**PART-III**

**Long Answers**

**(Instruction: Answer two out of three questions)**

(2 x 10 = 20 marks)

- Q11. What are adrenal glands? Discuss hormones secreted by adrenal cortex and medulla.
- Q12. Discuss disorders of thyroid glands.
- Q13. Give the functions of gastric juice. Describe peptic ulcers, it's types and complications.