



**GANDHI INSTITUTE OF ENGINEERING AND TECHNOLOGY, ODISHA, GUNUPUR
(GIET UNIVERSITY)**

B. Pharm. (Second Semester - Regular) Examinations, August - 2026

BP201T - Human Anatomy and Physiology II

Time: 3 hrs

Maximum: 75 Marks

Answer ALL questions

(The figures in the right hand margin indicate marks)

PART – A

(10 x 2 = 20 Marks)

Q.1. Answer **ALL** the questions

- Describe how nutrients are absorbed in the small intestine.
- State one digestive function each of the pancreas and liver.
- Mention any two hormones secreted by the adrenal gland and state one function of each.
- Identify the hormone secreted by the pineal gland and mention its major function.
- State how insulin helps maintain normal blood glucose levels.
- Define nephron and mention its two major parts.
- State any two functions of the kidneys.
- Explain the role of the renin–angiotensin system (RAS) in maintaining blood pressure.
- Define chromosomes
- Define central dogma of life

PART – B

(2 x 10 = 20 Marks)

Q.No. 2. Answer **ANY TWO** questions (Long Answer Question)

- Explain the major parts of the brain and their important functions
- Apply your knowledge of the anatomy of the stomach to describe the role of the fundus, body and pylorus in digestion
- Classify hormones based on their chemical nature and explain their mechanism of action with suitable examples.

PART – C

(7 x 5 = 35 Marks)

Q. No.3. Answer **ANY SEVEN** questions (Short Answer Question)

- Write the composition and importance of Cerebro spinal Fluid
- Define ovulation. Explain the phases of menstruation.
- Analyze the effects of hypersecretion and hyposecretion of thyroid hormones and relate them to their major disorders.
- Compare the major hormones secreted by the pituitary, thyroid, and adrenal glands based on their functions.
- Explain the mechanism of respiration and describe how inspiration and expiration occur.
- Explain the anatomy of the kidney and nephron and describe their functions in urine formation.
- Differentiate the functions of male and female reproductive hormones and relate them to reproductive functions.
- Compare difference between DNA and RNA
- Add a note on Protein synthesis

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