

B.Sc. Semester-V Examination, 2022-23**PHYSIOLOGY [Honours]**

Course ID : 52512 Course Code : SH/PHY/502/C-12(T)

Course Title : Endocrinology

Time : 1 Hour 15 Minutes

Full Marks : 25

*The figures in the right-hand margin indicate marks.**Candidates are required to give their answers in their own words as far as practicable.*1. Answer any **five** questions of the following:

1×5=5

- What is milk-let-down reflex?
- Define circadian rhythm.
- What is 'Froehlich's syndrome'?
- Define parathyroid tetany.
- What is G-protein?
- Define paracrine gland.
- What is acromegaly?
- What is erythropoietin?

2. Answer any **two** questions of the following:

5×2=10

- What is neuro-endocrine gland? Describe the endocrine function of kidney. 2+3
- Name the hormone secreted from pineal gland. Mention one important function of hormone. 2+3
- What is G.I hormone? Discuss the physiological role of gastrin. 1+4
- Write the role of PTH and calcitonin in regulation of calcium level. 2½+2½

3. Answer any **one** questions of the following:

10×1=10

- Describe the histological structure of adrenal cortex with suitable diagram.
Explain in brief the function of adrenal medullary hormones. 5+5
- Write the histological alteration of thyroid gland in hypoactive and hyperactive state. Discuss the physiological basis of sleep-wakefulness cycle in chronobiology. 5+5