

B.Sc. 5th Semester (Honours) Examination, 2020-21

PHYSIOLOGY

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 margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable.

1. Answer any five questions from the following: 1×5=5

- (a) Why ADH is known as arginine vasopressin?
- (b) State the two functions of pineal hormones.
- (c) What do you mean by Froehlich's Syndrome?
- (d) Why are endocrine glands called ductless glands?
- (e) What do you mean by pituitary insufficiency?
- (f) Name the hormones secreted by thyroid gland.
- (g) "Heart is an endocrine organ" – Justify.
- (h) Name the types of cells present in anterior pituitary gland.

2. Answer any two questions from the following: 5×2=10

- (a) Hypothalamus is a neuroendocrine organ –justify. What is the cause of gigantism?
3+2= 5
- (b) Mention the causes of diabetes mellitus. Distinguish between type-I and type-II diabetes mellitus.
2+3 =5
- (c) What is the source of oxytocin and vasopressin? Describe the biological importance of oxytocin.
2+3=5
- (d) What is zeitgeber? Describe the endocrine function of kidney.
2+3=5

3. Answer any one question from the following: 10×1=10

- (a) What do you mean by tropic hormone? Describe the function of adrenal medullary hormones. What is pheochromocytoma?
2 +6+2 =10
- (b) Describe the histological structure of thyroid gland with a suitable diagram. Mention the biological role of T₃ and T₄.
3+2+(2½+2½) =10