



'সমানো মন্ত্র: সমিতি: সমানী'

UNIVERSITY OF NORTH BENGAL

B.Sc. Honours 5th Semester Examination, 2022

CC12-PHYSIOLOGY

ENDOCRINOLOGY

Time Allotted: 2 Hours

Full Marks: 40

The figures in the margin indicate full marks.

GROUP-A

1. Answer the following questions (any **five**): 1×5 = 5
- (a) What are the effects of acromegaly?
 - (b) What is the site of aldosterone synthesis in adrenal cortex?
 - (c) What are the main actions of oxytocin?
 - (d) What is the cause of simple goiter?
 - (e) What are the hormones of adrenal medulla?
 - (f) Name the hormones of anterior pituitary.
 - (g) In which forms cortisol is found in the blood?
 - (h) What is the cause of gigantism?
 - (i) Name the common signs present in tetany.
 - (j) What are the main actions of vasopressin (ADH)?

GROUP-B

Answer the following questions (any *three*)

5×3 = 15

- 2. State the functions of pineal hormones. 5
- 3. Describe the synthesis and catabolism of adrenaline. 5
- 4. Write briefly about ANF. 5
- 5. Name the releasing and inhibitory hormones (factors) secreted by hypothalamus. 5
- 6. What are the effects of insulin on fat metabolism? 5

GROUP-C

Answer the following questions (any two)

10×2 = 20

7. (a) What do you mean by positive and negative feedback mechanism? 5
(b) How GnRH regulates the gonadotropins secretion from anterior pituitary? 5
8. Discuss the role of DAG and IP₃ as second messenger in hormonal action. 10
9. Write short notes on the following: 5+5
(a) APUD cells
(b) Tyrosine kinase.
10. What are the hormones released from posterior pituitary? Discuss the physiological function of these hormones. 2+8

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