

U.G. 5th Semester Examination - 2024**PHYSIOLOGY****[HONOURS]****Course Code : PHYSIOL-H-CC-T-12****Full Marks : 40****Time : 2½ Hours***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:****2×5=10**

- a) What is Addison's disease?
- b) Name the hormones secreted from the anterior pituitary.
- c) Write the differences between local hormones and tropic hormones.
- d) What is the significance of C-peptide in insulin?
- e) What are the functions of glucagon-like-peptide?
- f) What do you understand by bone remodeling?
- g) Write the functions of ANP.
- h) Give the full forms of IDDM and NIDDM.

[Turn Over]

2. Answer any two questions: $5 \times 2 = 10$
- a) What do you understand by GLUT? Write the role of insulin on fat metabolism. $2 + 3 = 5$
 - b) Write the role of ADH in water and electrolyte balance. What is polydipsia? $4 + 1 = 5$
 - c) Write the neuroanatomical location and physiological significance of supra chiasmatic nucleus. 5
 - d) Discuss the physiological functions of erythropoietin. 5
3. Answer any two questions: $10 \times 2 = 20$
- a) Discuss the role of glucocorticoid on carbohydrate and protein metabolism. What is congenital adrenal hyperplasia? $8 + 2 = 10$
 - b) What are antithyroid substances? Write the physiological role of thyroxine in human. $2 + 8 = 10$
 - c) Discuss the physiological functions of growth hormone. What do you understand by stunting? $8 + 2 = 10$
 - d) Discuss about the synthesis of the components of Renin-Angiotensin system. Write the function and significance of this system. $5 + 5 = 10$
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