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UG/5th Sem/Physio(H)/T/19

2019

B.Sc. (Honours)

5th Semester Examination

PHYSIOLOGY

Paper - C12T

(Endocrinology)

Full Marks : 40

Time : 2 Hours

*The figures in the margin indicate full marks.
Candidates are required to give their answers
in their own words as far as practicable.*

Group - A

1. Answer any *five* questions from the following.

5×2=10

- (a) Why ADH and oxytocin are called neurohormones ? 2
- (b) What is hyperinsulinism ? 2
- (c) State two functions of melatonin. 2

[Turn Over]

(2)

- (d) Write a brief note on pheochromocytoma. 2
- (e) What is Wolf-Chaikoff effect ? 2
- (f) What is cretinism ? 2
- (g) State the source and any two function of atrial natriuretic peptide. 2
- (h) What is Cushing's disease ? 2

Group - B

2. Answer any *four* questions from the following.

4×5=20

- (a) Discuss the function of Renin-Angiotensin-Aldosterone in our body system. 5
- (b) Briefly discuss about calcium homeostasis mediated by parathyroid hormone and calcitonin. 5
- (c) Describe the role of vasopressin in osmoregulation. 5
- (d) How blood sugar level is regulated by insulin and glucagon ? 3+2
- (e) Describe the histological structure of adrenal cortex with suitable diagram and discuss its functions. 2½+2½

(3)

- (f) State the mode of action and brief functions of growth hormone. 2+3

Group - C

3. Answer any *one* question from the following.

1×10=10

- (a) Discuss the role of IP_3 and DAG in cellular signal transduction. How cyclic cGMP acts as a second messenger ? Explain the positive and negative feedback regulation of hormone action.

5+2+3

- (b) Describe the electron microscopic structure of thyroid gland with suitable diagram. Mentioning the role of sodium-iodide pump, discuss the synthesis of thyroid hormone. State the clinical features of iodine deficiency goitre. 3+5+2
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