52512/16328

1. Answer <i>any five</i> questions from the following:	1×5=5
(a) Define second messenger. Give one example.	
(b) What is ANF?	
(c) What is Calcitriol?	
(d) What are catecholamines? Why they are named so?	
(e) What is pheochromocytoma?	
(f) Write down the cause of osteomalacia.	
(g) What is LATS?	
(h) What is G-protein?	
2. Answer <i>any two</i> questions from the following:	5×2=10
(a) What is osteoporosis? Describe the role of PTH and thyrocalcitonin in regulation calcium level.	on of blood 1+2+2=5
(b) Describe the role of pancreatic hormones on blood glucose regulation.	5
(c) What is G.I. hormone? Discuss the physiological role of gastrin.	1+4=5
(d) Discuss the physiological basis of sleep-wakefulness cycle in chronobiology.	5
3. Answer <i>any one</i> question:	10×1=10
(a) Discuss the role of osteoblast and osteoclast cells in bone formation. Differentiate between exogenous and endogenous bio-rhythms. What is infradian rhythm? Give one example.	
2+2-	+3+2+1=10

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

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

Course Title : Endocrinology

B.Sc. 5th Semester (Honours) Examination, 2019-20

Course ID : 52512

Time: 1 Hour 15 Minutes

2+2+3+2+1=10

(b) Describe the histological structure of adrenal cortex with suitable diagram. Mention the significance of hypo-thalamo-pituitary axis in man. 5+5=10

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Full Marks: 25