The Assam Royal Global University, Guwahati

Royal School of Life Sciences
M.Sc Zoology , Ist Semester
Semester End Examaination ,December 2018
Course Title : General and Comparative Endocrinology
Course Code:ZOO144C102

Time: 3 hours

Maximum Marks: 70

Note: Attempt all questions as per instructions given The figure in the right hand margin indicate marks.

SECTION-A

1 .Answer the following: (Maximum word limit 50)

2x8

- a) What are the types of chemical messengers?
- b) What is the chemical nature of prostaglandin and what are its function?
- c) What are the types of receptors?
- d) Are the catecholamines neurotransmitter? What is their precursor?
- e) Name the four type of mechanism in terminating the hormone action?
- f) Give the chemical structure of insulin .
- g) What do you mean by seasonal breeders? Give example.
- h) Name two hormone that has an influence on our behaviour?

SECTION-B

2. Answer the following: (any two)

5x2

- a) What are the scopes of endocrinology? How has it improved the medical treatment?
- b) Discuss some of the experimental methods of hormone research .
- c) Why hormones are messengers? How do you differentiate a hormone with an enzyme?

3. Answer the following (any two)

6x2

- a) Write a note on phylogeny of endocrine glands .
- b) Discuss the hormonal regulation of carbohydrate metabolism.
- c) Write a note on c AMP.

4.	Answer the following (any three) 4x3	
	THE ASSAM ROYAL GLODAL UNIVERSITY, GUWANAU	
	What are pre and pro hormones ? Discuss in details.	
	Discuss the biosynthesis of steroid hormone, politically and participated and politically and	
c)	What are protein hormones and their receptors ? Does leaguest selections	
18	What is the biosynthetic pathway of epinephrine ?	
- J	· · · · · · · · · · · · · · · · · · ·	
5.	Answer the following: (any two) 6x2	
	water application of specification is famous at the	
a)	What are the hormones responsible for reproduction? Describe one male hormone and fema	ile
	hormone with function .	
	Write a note on continuous breeders .	
C)	What are the hormones that control over our growth and development.	
	Answer the following: (Maximum word Iir 2-NOIT) 288	+
	SXS SECTION-CIT DIOW INDIMIXER.) : gniweliot ent tewaria.	
6	. Answer the following: Caregorate and England and Sanda	
	Write a note on hormone receptor signal transduction mechanism.	
1	Write a note on hormone receptor signal transduction mechanism.	
	Are the catecholamines neurotransmitter? What is their precursor?	
	Name the four type of mechanism in terminating the hormone action?	
	Give the chemical structure of insulin .	
	What do you mean by seasonal breeders ? Give example.	
	Name two hormone that has an influence on our behaviour?	
	SECTION-B	
	Answer the following: (any two)	
	What are the scopes of endocrinology? How has it intproved the medical treatment?	
	Discuss some of the experimental methods of normone research.	
	Why hormones are messengers? How do you differentiate a hormone with an enzyme?	
	A continue has been been been been been been been bee	
	Inswer the following (any two)	
	Write a note on phylogeny of endocrine glands	
	Discuss the hormonal regulation of carbohydrate metabolism	
	Write a note on c AMP.	