

SEM	SET	PAPER CODE	TITLE OF THE PAPER
IV	2013	12PBI4114	ADVANCED ENDOCRINOLOGY

SECTION – A**Answer all the questions:****20 x 1 = 20****Choose the correct answer:**

- FSH is an example of _____ hormone.
 - Protein
 - Peptide
 - Glycoprotein
 - Steroid
- Insulin receptor belongs to _____.
 - Receptor tyrosine kinase
 - Receptor serine kinase
 - Nuclear receptor
 - MAPK
- Which one of the following hormone is not secreted from adipose tissue?
 - Leptin
 - Gherlin
 - Resistin
 - Glucagon
- Human chorionic gonadotropin is secreted from
 - Placenta
 - Trophoblast cell
 - Corpus luteum
 - Fetus
- Peroxisome proliferator activated receptors belongs to
 - Nuclear receptor
 - Cytosolic receptor
 - Cell surface receptor
 - None of the above

Fill in the blanks:

6. _____ ion is essential for thyroid hormone synthesis.
7. MAP kinases are a family of _____ kinases.
8. Leptin is a _____ hormone produced by white adipose tissue.
9. _____ is the hormone highly essential during parturition.
10. Nuclear receptors are also called as _____ factors.

State True or False:

11. Melatonins and serotoninins are essential in circadian rhythm.
12. Second messengers are small signalling molecules that are produced in large number as a consequence of signal transduction or receptor activation.
13. Leptin is a hormone that produce a feeling of satiety.
14. Antimullerian hormone is essentially involved in female sex differentiation.
15. C-region is the DNA binding of nuclear receptor.

Answer in one or two sentences:

16. What is hypothalamus pituitary adrenal axis?
17. What are protein kinases?
18. Define resistin.
19. Define menstruation.
20. What is LxR?

SECTION – B

Answer all the questions:

5 x 4 = 20

21. a. Give an account on adrenocortical hormones.

OR

b. What is hormone resistance syndrome? Give an account on its types.

22. a. Explain the role of any two second messenger in signal transduction.

OR

b. Give an account on protein kinases.

23. a. Elucidate the effects of glucocorticoids in programming disease in adults.

OR

b. Enumerate the physiological role of leptin.

24. a. Explain the hormonal significance during parturition and Lactation.

OR

b. Explain how genes and hormones involved in male sex differentiation.

25. a. Briefly explain the general structural features of nuclear receptor.

OR

b. Explain the structure of PPAR's.

SECTION – C

Answer any FOUR questions:

4 x 15 = 60

26. Describe in detail the synthesis and endocrine functions of thyroid hormones. Add a note on its dys function.
27. Describe enzyme linked receptors.
28. Discuss the role of hormones from adipose tissue.
29. Describe with suitable diagram the structure and function of male and female accessory sex organs.
30. Describe the structure, function and signalling mechanism of liver X receptor.
