

16P216

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Name.....

Reg. No.....

SECOND SEMESTER M.Sc. DEGREE EXAMINATION, MAY-2017

(Regular/Supplementary/Improvement)

(CUCSS - PG)

CC 15P ZO2 C06 - DEVELOPMENTAL BIOLOGY & ENDOCRINOLOGY

(Zoology)

(2015 Admission Onwards)

Time: Three Hours

Maximum: 36 Weightage

I Answer the following:-

1. Autonomous specification.
2. Cadherin.
3. Silencers.
4. RTK pathway.
5. HOX code hypothesis.
6. Developmental estrogen.
7. Morphogen.
8. Endorphin.
9. Neurotransmitters as chemical messengers.
10. Physiological role of hormones.
11. Latency.
12. Calmodulin.
13. Phosphatidyl inositol system.
14. IGF

(14 x 1 = 14 weightage)

II Answer *any seven* of the following:-

15. Explain the models of cell differentiation.
16. Discuss the process of Vulva formation.
17. Explain the primary and secondary sex determination in mammals.
18. Describe the different types of polyphenesim.
19. Discuss the differential gene transcription.
20. Genetically programmed aging in development.

21. Explain the role of growth hormone in ketosis.
22. Functions of glucocorticoid.
23. Write about blood glucose regulation.
24. Hormonal regulation of female monthly rhythm

(7 x 2 = 14 weightage)

III Answer any two questions:-

25. Explain the regeneration and histological process involved.
26. Describe axis specification in drosophila.
27. Write details about types of receptors and its regulation.
28. Explain eicosanoids and hormone action.

(2 x 4 = 8 weightage)

(14 x 1 = 14 weightage)

II Answer any seven of the following:-

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19. Discuss the differential gene transcription.
20. Genetically programmed aging in development.