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(Pages : 2)

Reg. No.....

Name.....

B.Sc. DEGREE (C.B.C.S.) EXAMINATION, JUNE 2018

Second Semester

Core Course – BT 2CRT 05 – EVOLUTIONARY BIOLOGY AND DEVELOPMENTAL BIOLOGY

(Biotechnology M III Programme)

[2017 Admissions only]

Time : Three Hours

Maximum : 60 Marks

Part A

Answer any ten questions.

Each question carries 1 mark.

1. What is Carbon dating?
2. Define Atavism.
3. What is Neolamarckism?
4. Coacervates.
5. What is Progenote?
6. Mention the function of Yolk sac.
7. What is Polyembryoni?
8. State the theory of Panspermia.
9. Define Macro evolution.
10. Differentiate between radicle and plumule.
11. Comment on the significance of Darwin finches.
12. What is Neuroectoderm?

(10 × 1 = 10 marks)

Part B

Answer any six questions.

Each question carries 5 marks.

13. Explain Adaptive radiation with examples.
14. Write notes on Parthenogenesis.
15. Comment on Neo-Darwinism.
16. Explain the process of Spermatogenesis in animals.

Turn over

17. Differentiate Allopatni and Sympatni speciation.
18. With the help of a neat labelled diagram, write the parts of a typical flower.
19. Describe the concept of natural selection.
20. What is Geological time scale?
21. Explain the Theory of Recapitulation.

(6 × 5 = 30 marks)

Part C

Answer any two questions.

Each question carries 10 marks.

22. Write an essay on human evolution.
23. Explain the various evidences of evolution.
24. Describe the theories of evolution.
25. Describe the embryo development in animals.

(2 × 10 = 20 marks)