



QP CODE: 20101104



20101104

Reg No : .....

Name : .....

**B.Sc. DEGREE (CBCS) EXAMINATION, NOVEMBER 2020**

**Second Semester**

B.Sc Biotechnology Model III

**Core Course - BT2CRT05 - EVOLUTIONARY BIOLOGY AND DEVELOPMENTAL**

**BIOLOGY**

2017 ADMISSION ONWARDS

3AE51CB6

Time: 3 Hours

Max. Marks : 60

**Part A**

*Answer any **ten** questions.*

*Each question carries **1** mark.*

1. Who is the founder of Palaeontology?
2. What are the components that constitute prebiotic environment?
3. What is natural selection?
4. What is micro evolution?
5. What is Ramapithecus?
6. Features of binomial nomenclature.
7. Define germination.
8. Mention types of seed dormancy.
9. Define false polyembryoni.
10. Define embryology.
11. Define spermatocyte.
12. What is a blastocyst?

(10×1=10)

**Part B**

*Answer any **six** questions.*

*Each question carries **5** marks.*





13. Describe the Empedocles theory of Evolution.
14. Explain Miller-Urey experiment with diagram.
15. Explain sympatric speciation with suitable example.
16. How are evolutionary relationships determined?
17. Explain evolution of humans from apes.
18. Explain male and female reproductive organs in a flower.
19. How coleoptile differentiated from coleorrhiza?
20. Discuss about the formation of germ layers.
21. Explain fate of embryonic layers.

(6×5=30)

**Part C**

*Answer any **two** questions.*

*Each question carries **10** marks.*

22. Write an essay on 'Darwinian theory of evolution'.
23. Discuss the effect of adaptive radiation in evolution.
24. Explain different stages of flower development.
25. Discuss in detail the process of fertilization.

(2×10=20)

