



QP CODE: 24019210



24019210

Reg No :

Name :

**B.Sc DEGREE (CBCS) REGULAR / IMPROVEMENT / REAPPEARANCE
EXAMINATIONS, MAY 2024**

Second Semester

B.Sc Biotechnology Model III

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

2017 ADMISSION ONWARDS

33F96079

Time: 3 Hours

Max. Marks : 60

Part A

*Answer any **ten** questions.*

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

1. What is the evolutionary theory of Charles Darwin ?
2. What was the conditions prevailing for the formation of organic molecules?
3. Define macroevolution.
4. What is Lamarckism?
5. Who discovered Ramapithecus?
6. Define human evolution.
7. Define microsporogenesis.
8. What is radicle?
9. Differentiate gymnosperms and angiosperms.
10. Define zona pellucida.
11. What is the process of gastrulation?
12. Mention fate of mesoderm.

(10×1=10)

Part B

*Answer any **six** questions.*

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





13. What are the contributions of Charles Darwin to evolutionary biology ?
14. Write short note on 'struggle for existence'.
15. Explain allopatric speciation with suitable example.
16. How are evolutionary relationships determined?
17. Explain the unique characters of human ?
18. Explain structure of flower with labelled diagram.
19. How coleoptile differentiated from coleorrhiza?
20. Differentiate and explain morula and blastula.
21. Explain parthenogenesis and its types with examples.

(6×5=30)

Part C

*Answer any **two** questions.*

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

22. Explain evidences of prebiotic environment and molecular evolution.
23. Discuss the effect of mutation in evolution.
24. Explain seed dormancy. Mention its types.
25. Discuss in detail spermiogenesis and spermatogenesis.

(2×10=20)

