**314 – E**

**Intermediate (APOSS)**
**July 2018**

**Reg. No. : .....**

# BIOLOGY

Time : 3 Hours | Maximum : 80 Marks

***Instructions*** *: 1) Answer **all** questions in Section – **A**.*
*2) Answer **any six** questions in Section – **B**.*
*3) Answer **any three** questions in Section – **C**.*
*4) Answer **1 – 16** questions in serial order.*
*5) Draw diagrams with labelling **wherever** necessary.*

## SECTION – A

**Note** : Answer **all** questions in **one** or **two** sentences. **Each** question carries **two** marks. **(16×2=32 Marks)**

1. Define biodiversity.
2. How many types of water available in the soil ? What are they ?
3. Define parthenocarpy.
4. What is the importance of micropropagation ?
5. Define food chain.
6. Define petroplants and give example.
7. Mention two fields in which science of Biotechnology is used.
8. What is meant by Green house ?
9. In which state Periyar National Park is situated ? What are the animals conserved in it ?
10. What is cretinism ?
11. What is inheritance ?
12. Name the enzyme present in the saliva. What is its function ?

13. Who coined the term Antibiotic ? What is its function ?

14. Which type of microscope is used to observe living cells ?

15. Mention two factors which deplete ozone layer.

16. What is mutation ? How many types of are they ? What are they ?

SECTION – B

**Note** : Answer **any six** questions in **5 – 6** sentences. **Each** question carries **four** marks. **(6×4=24 Marks)**

17. Mention any four differences between prokaryotes and eukaryotes.

18. Describe inspiration and expiration in man.

19. Explain ecological pyramids.

20. Mention the pathogenecity of Entamoeba.

21. Differentiate between active absorption and passive absorption.

22. Draw the diagram “L.S. of mature ovule” and label.

23. Describe few water conservation methods.

24. What is meant by Bioremediation ?

SECTION – C

**Note** : Answer **any three** in **8 – 10** sentences. **Each** question carries **eight** marks. **(3×8=24 Marks)**

25. Explain Kreb’s cycle.

26. Describe different underground stem modifications with neat diagrams.

27. Describe the structure of heart of man.

28. Explain the sex determination in Drosophila.

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