

**C. ABDUL HAKEEM COLLEGE (AUTONOMOUS),
MELVISHARAM - 632 509.
SEMESTER EXAMINATIONS, NOVEMBER - 2018**

B.Sc., ZOOLOGY

SEMESTER I

U15ABY101 – BOTANY - I (ALLIED)

Time: Three Hours

Maximum: 60 Marks

SECTION - A (10 X 1 = 10 Marks)

Answer **ALL** Questions.

Write Short notes on:

1. Quantasomes.
2. Nucleolus .
3. Antibiotics.
4. Endospore.
5. Parenchyma.
6. Root hair.
7. Binomial nomenclature.
8. Cyathium.
9. Micropyle.
10. Pollen grain.

SECTION - B (5 X 4 = 20 Marks)

Answer **ALL** Questions.

11. a) Draw and explain the structure of nucleus.
(Or)

b) Describe the structure of a prokaryotic cell with a neat diagram.

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12. a) Draw and explain the structure of Tobacco Mosaic Virus.
(Or)

b) Explain the economic importance of bacteria.

13. a) Draw and explain the T.S. of primary structure of root.
(Or)

b) Give an account on the characteristic features of meristematic tissues.

14. a) Discuss the salient features of the family Apocynaceae.
(Or)

b) Write an account on the economic importance of the family Liliaceae.

15. a) Give an account on the double fertilization.
(Or)

b) Draw and explain the structure of a mature anther.

SECTION - C (3 X 10 = 30 Marks)

Answer **ANY THREE** Questions.

16. Discuss in detail about the structure and functions of chloroplast with a neatly labelled diagram.
17. Draw and explain the structure of bacteriophage with a neatly labelled diagram.
18. Discuss in detail about the types of complex permanent tissue with neat diagrams.
19. Give the general outline of Bentham and Hooker's classification.
20. Discuss the different types of ovules with neat diagrams.

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