

B**0127**

Total No. of Questions - 21

Regd.

Total No. of Printed Pages - 2

No.

Part - III
BOTANY, Paper - I
(English Version)

Time : 3 Hours**Max. Marks : 60****Section - A****10×2=20****Note:**

- (i) Answer **ALL** questions.
- (ii) Each question carries **TWO** marks.
- (iii) All are very short answer type questions.

1. Give the scientific name of Mango. Identify the generic name and specific epithet.
2. Why is Mendel considered as the Father of Genetics?
3. What is Palaeobotany? What is its use?
4. Define venation. How do dicots differ from monocots with respect to venation?
5. What is meant by epipetalous condition? Give an example.
6. What is 'Omega Taxonomy'?
7. Which part of the bacterial cell is targeted in gram staining?
8. Give one example each of amino acids, sugars, nucleotides and fatty acids.
9. At what stage of cell cycle does DNA synthesis occur?
10. Define population and community.

Section - B

6×4=24

Note:

- (i) Answer **ANY SIX** questions.
 - (ii) Each question carries **FOUR** marks.
 - (iii) All are short answer type questions.
 - (iv) Draw labelled diagrams, wherever necessary.
11. Write the role of Fungi in our daily life.
 12. Differentiate between red algae and brown algae.
 13. Distinguish between asexual and sexual reproduction. Why is vegetative reproduction also considered as a type of asexual reproduction?
 14. Give economic importance of plants belonging to Fabaceae.
 15. Describe the cell organelle which contains chlorophyll pigment.
 16. Mention the key features of meiosis.
 17. State the location and function of different types of meristems.
 18. Enumerate the morphological adaptations of hydrophytes.

Section - C

2×8=16

Note:

- (i) Answer **ANY TWO** questions.
 - (ii) Each question carries **EIGHT** marks.
 - (iii) All are long answer type questions.
 - (iv) Draw labelled diagrams, wherever necessary.
19. Explain different types of racemose inflorescences.
 20. With a neat, labelled diagram, describe the parts of a mature angiosperm embryo sac. Mention the role of synergids.
 21. Describe the internal structure of a dicot root.