

PART C — (5 × 8 = 40 marks)

Answer ALL questions choosing either (a) or (b).
Each answer should not exceed 600 words.

16. (a) Expound the function of viruses.
Or
(b) Elucidate the reproduction of Bacteria.
17. (a) Interpret the structure of Eukaryotic cell.
Or
(b) Describe the ultrastructure of prokaryotic cell wall.
18. (a) Explain – Adventitious root modifications.
Or
(b) Explain the different types of cymose inflorescence.
19. (a) Explain, the phenotypic ratio of F₂ generation in pea seeds after crosses with round yellow (RRYY) and wrinkled green (rryy).
Or
(b) Sex-linked inheritance – Explain.
20. (a) Explain – diffusion theory.
Or
(b) Expound the mechanisms of stomatal movement.

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B.Sc. (CBCS) DEGREE EXAMINATION,
NOVEMBER 2024.

First Semester

Botany — Foundation Course

BASICS OF BOTANY

(For those who joined in July 2024 onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL questions.

Choose the correct answer :

1. Nostoc is a type of _____
(a) Blue green algae (b) Green algae
(c) Brown algae (d) Red algae
2. In cycas, this type of root present is called as
(a) Tap root (b) Fibrous root
(c) Coralloid root (d) Mycorrhiza
3. What is the component of prokaryotic cell in this list?
(a) Ribosomes (b) Cell wall
(c) Plasma membrane (d) Nucleoid



4. Which among these, stroma is ground material?
 (a) Ribosomes (b) Lysosomes
 (c) Mitochondria (d) Chloroplast
5. Photosynthetic assimilatory roots are present in
 (a) Tinospora (b) Trapa
 (c) Taeniophyllum (d) All of these
6. Leaves are modified into tendrils in it
 (a) Parkinsonia (b) Pea
 (c) Ranunculus (d) Oxalis
7. Which of the following characters was not chosen by Mendel?
 (a) Pods shaped (b) Pods colour
 (c) Pods location (d) Flower location
8. A trait that overpower and hide another trait is called _____
 (a) Over powering trait
 (b) Complex trait
 (c) Recessive trait
 (d) Dominant trait
9. Which one is osmosis type?
 (a) Imbibition of solution
 (b) Diffusion of solvent
 (c) Evaporation of water
 (d) Diffusion of solute

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10. The highly concentrated solution is called as
 (a) Hypotonic (b) Isotonic
 (c) Hypertonic (d) None of these

PART B — (5 × 5 = 25 marks)

Answer ALL questions choosing either (a) or (b).
 Each answer should not exceed 250 words.

11. (a) Write the general characters of Bryophytes.
 Or
 (b) Write the salient features of pteridophyte.
12. (a) Discuss the ultrastructure of prokaryotic cell.
 Or
 (b) Write about the plant cell wall.
13. (a) Comment about palmately compound leaves.
 Or
 (b) Underground stem modification – Discuss.
14. (a) Write the Mendel's law of Dominance.
 Or
 (b) Give a comment about genetic variation.
15. (a) Describe – Osmosis.
 Or
 (b) Write the significance of transpiration.

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