

2022-26

Full Marks : 75

Time : 3 Hours

Candidates are required to give their answer in their own words as far as practicable. Their figures in the margin indicate full marks.

Group - A

(Compulsory)

1. Choose the correct answer :

5×1=5

(i) Smallest rank of taxa is :

- (a) Class
- (b) Family
- (c) Genus
- (d) Species

(ii) Father of Taxonomy is :

- (a) Aristotle
- (b) C. Linnaeus
- (c) P. Maheshwari
- (d) G. J. Mendel

(iii) The cell wall of bacteria is made up of :

- (a) Chitin
- (b) Cellulose
- (c) Peptidoglycan
- (d) Lignin

(iv) A Plant having both male and female flower is called :

- (a) Dioecious
- (b) Monoecious
- (c) Bisexual
- (d) Unisexual

(v) Enzymes of Krebs cycle are located in :

- (a) Cytoplasm
- (b) Glyoxisomes
- (c) Mitochondria
- (d) Chloroplast

2. Write down the characteristic features of Algae or Fungi. 5

3. Draw a well Labelled structure of plant cell. 5

OR

Write the distinguish features of family Solanaceae.

Group - B

Answer any **four** questions from the following :

4×15=60

4. Write the name of Causal organism, Symptoms and control measures of Citrus Canker.
5. Write short notes on ethnobotanical uses of the following :
 - (a) Palash
 - (b) Neem
 - (c) Sal
6. Define cell division. Describe various stages of Mitosis with well labelled diagram.
7. Explain with suitable examples Mendel's Law of inheritance.
8. Give the illustrated account of Structure of DNA.
9. Explain Biological nitrogen fixation.

