

BOTANY 2024

(Science Pre-Medical Groups)

TIME: 2 Hours

(45 Marks)

SECTION 'A' (Multiple Choice Questions)(09)

NOTE: i) This section consists of 18 part questions and all are to be answered. Each question carries $\frac{1}{2}$ mark.
ii) Do not copy the part questions in your answerbook. Write only the answer in full against the proper number of the question and its part.

1 Choose the correct answer for each from the given options:

i) These organelles contain DNA.

- * Golgi bodies and Lysosome
- * Mitochondria and Chloroplast ✓
- * Cell wall and Cell membrane
- * Peroxisome and Glyoxysome

ii) These cell organelles take part in detoxification of alcohol:

- * Chloroplast
- * Peroxisome ✓
- * Golgi bodies
- * Mitochondria

iii) During photosynthesis, light gathering part of chlorophyll is called.

- * Antenna Complex ✓
- * Spectrum
- * Retina Complex
- * Photon

iv) The most common C₄ plants are:

- * Potato
- * Sugarcane ✓
- * Cactus
- * Wheat

v) RUBISCO function as carboxylase as well as:

- * Oxido-reductase
- * Hydrolase
- * Oxygenase ✓
- * Ligase

vi) The gametophyte of fern is called:

- * Archegonium
- * Cones
- * Antheridium
- * Prothallus ✓

vii) Aedes mosquito is the vector of:

- * Dengue Virus ✓
- * Hepatitis Virus
- * Ebola Virus
- * Measles Virus

viii) Fungus Phytophthora causes this disease:

- * late blight of potato ✓
- * early blight of potato
- * late blight of tomato
- * early blight of tomato

ix) Prokaryotes evolved from the ancestors:

- * Virion
- * Eukaryote
- * RNA
- * Protobionts ✓

x) The most important cellulose degraders in ecosystem are:

- * Basidiomycota
- * Zygomycota
- * Ascomycota ✓
- * Deutromycota

xi) The type of alternation of generation in Ulva is:

- * Heterotrophic
- * Isomorphic ✓
- * Heteromorphic
- * Autotrophic

xii) Spores of land plants tough, flexible and resistant to biodegradation are due to:

- * Chitin
- * Waxes
- * Sporopollenin ✓
- * Pectin

xiii) Legumes belongs to this family:

- * Solanaceae
- * Cucurbitaceae
- * Fabaceae ✓
- * Brassicaceae

xiv) Double fertilization is the characteristics of:

- * Bryophyta
- * Angiosperm ✓
- * Gymnosperm
- * Pteridophyta

xv) Insectivorous plants live in soil deficient in:

- * Nitrogen ✓
- * Calcium
- * Magnesium
- * Potassium

xvi) The water potential of pure water is:

- * -10
- * zero ✓
- * 10
- * 100

xvii) The growth of pollen tube through style to the ovary is this type of movement:

- * Geotropism
- * Hydrotropism
- * Chemotropism ✓
- * Phototropism

xviii) Guttation occurs through:

- * Lenticels
- * Hydathodes ✓
- * Stomata
- * Bark