

BOTANY 2021

(AS PER CONDENSED SYLLABUS)

TIME: 1 Hour 30 Minutes

(45 Marks)

NOTE:

i) This section consists of 22 part questions and all are to be answered. Each question carries ONE mark.

ii) Do not copy the part questions in your answer book. Write only the answer in full against the proper number of the question and its part.

SECTION 'A' (Multiple Choice Questions) (22)

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

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(i) Gametophytic generation is dominant in:

- * Angiosperms
- * Bryophytes ✓
- * Pteridophytes
- * Gymnosperms

(ii) Oxygen becomes attached to RUBP during:

- * C₃ Pathway
- * C₄ Pathway
- * Calvin-Benson
- * Photorespiration ✓

(iii) This disease is caused by arbovirus:

- * Mumps
- * Yellow fever ✓
- * Measles
- * Rabies

(iv) He proposed the five kingdom system:

- * G.I Nicolson
- * Robert Whittaker ✓
- * M. Scheleiden
- * Carl Benda

(v) Nostoc fixes Nitrogen is:

- * Heterocyst ✓
- * Akinetes
- * Hormogonis
- * Vegetative cells

(vi) It has its own DNA:

- * Vacuole
- * Mitochondria ✓
- * Lysosomes
- * Endoplasmic Reticulum

(vii) Photosynthetic bacteria liberate it:

- * O₂
- * CO₂
- * H₂S
- * Sulphur ✓

(viii) It is the only living genus of sphenopsida:

- * Rhynia
- * Equisetum ✓
- * Cycads
- * Pinus

(ix) It is the self-digestion process:

- * Heterophagy
- * Autophagy ✓
- * Phagocytosis
- * Pinocytosis

(x) The transportation required energy is:

- * Active transport ✓
- * Passive transport
- * Diffusion
- * Phagocytosis

(xi) Cristae is the part of:

- * Golgi apparatus
- * Vacuole
- * Chloroplast
- * Mitochondria ✓

(xii) Measles and mumps in human beings are caused by:

- * Rhino virus
- * Arbovirus
- * Para myxo virus ✓
- * Rhabdo virus

(xiii) Hepatitis type which passes through blood from mother to child during pregnancy is:

- * Hepatitis A
- * Hepatitis B
- * Hepatitis C ✓
- * Hepatitis D

(xiv) Extermely thin appendages helping during conjugation in bacteria are:

- * Flagella
- * Pilli ✓
- * cilia
- * Tentacles

(xv) Bacterial growth will be faster during this stage:

- * lag
- * log ✓
- * stationary
- * decline

(xvi) Protoctist having Isomorphic alternation of generation:

- * chlorella
- * euglena
- * ulva ✓
- * ulothrix

(xvii) Most serious plant diseases caused by this class of Fungi:

- * Ascomycota ✓
- * Basidiomycota
- * Zygomycota
- * Deuteromycota

(xviii) Stigma is the part of:

- * sepal
- * petal
- * stamen
- * carpel ✓

(xix) Ascocarp having small opening at the apex is called:

- * Apothecium
- * Perithecium ✓
- * Cleistothecium
- * Protothecium

(xx) Process which converts pyruvate into three molecules of CO₂ is called:

- * C₃ Pathway
- * Kreb's cycle ✓
- * C₄ cycle
- * Glycolysis

(xxi) The basic unit of biological classification is:

- * Division
- * Order
- * Species ✓
- * Class

(xxii) During Aerobic respiration complete oxidation of one Glucose molecule produces these many ATPs:

- * 42
- * 34
- * 38 ✓
- * 30