



BOARD OF INTERMEDIATE & SECONDARY EDUCATION, HYDERABAD

Excellence – Equity – Empathy

Time: 1:30 Hours

BOTANY-I MODEL PAPER (CLASS XI)

Marks: 43

SECTION "A"

/22

MULTIPLE CHOICE QUESTIONS (MCQ's)

Q1: Choose the correct answer for each from the given options.
Each MCQ having 01 mark.

- (i) Tobacco Mosaic Virus is a type of helical virus having _____ shape.
(a) Spherical (b) Rod (c) Thread (d) Both b & c
- (ii) Bryophytes lacks all except _____.
(a) True Leaves (b) Vascular Tissues (c) Thalloid Body (d) Dominant Sporophyte
- (iii) Phloem loading occurs through _____.
(a) Imbibition (b) Diffusion (c) Osmosis (d) Active Transport
- (iv) Fungi can tolerate wide range of pH from _____.
(a) 2 – 4 (b) 2 – 5 (c) 2 – 7 (d) 2 – 9
- (v) The first group of plants having true leaves and roots are _____.
(a) Bryophyta (b) Psilopsida (c) Lycopsida (d) None of these
- (vi) Sexual reproduction of Ulva is _____ type.
(a) Anisogamous (b) Isogamous (c) Oogamous (d) Heterogamous
- (vii) The Grass family has the name of:
(a) Solanaceae (b) Poaceae (c) Graminae (d) Both a & b
- (viii) Un-enveloped plus – strand RNA viruses are:
(a) Lacking Envelop (b) Directly act as mRNA (c) Infectious agent (d) All of these
- (ix) Parasitic Fungi use _____ hyphae for food absorption.
(a) Rhizoids (b) Haustaria (c) Root hairs (d) Both a & b
- (x) Sarcina is an example of:
(a) Cocci (b) Bacilli (c) Spirilla (d) Vibrio
- (xi) Where do sperm and egg fertilization occur in a flower?
(a) Pollen Tube (b) Stigma (c) Embryo Sac (d) Style
- (xii) Coenocytic hyphae of Fungi is _____.
(a) Multinucleated (b) Uni-nucleated (c) Septate (d) Both b & c
- (xiii) The gelatinous mass of ball like structure having filaments of Nostoc are:
(a) Heterocyst (b) Hormogonia (c) Coenobium (d) Chlorobium
- (xiv) Inactive phase of growth in which Bacteria prepare themselves for division.
(a) Lag Phase (b) Log phase (c) Stationary phase (d) Decline phase
- (xv) Slime Molds having following similar characters with fungi except;
(a) Non-Chlorophyllous Cells (b) Body made up to Hyphae
(c) Presence of cell wall (d) Presence of Chitin
- (xvi) During photosynthesis, water splits and provides _____ for the reduction steps leading assimilation of CO₂.
(a) O & H⁺ (b) H⁺ & e⁻ (c) ½O₂ & e⁻ (d) only ½O₂
- (xvii) Which one is not a way of Heterotrophic mode of nutrition in plants?
(a) Parasitic (b) Chemotrophic (c) Saprophytic (d) Carnivorous
- (xviii) During photophosphorylation _____ protons are required for the production of one ATP molecule.
(a) 02 (b) 03 (c) 04 (d) None of these
- (xix) Sub-Class is a taxonomic rank between _____.
(a) Class & Family (b) Class & Order (c) Class & Phylum (d) Class & Genus
- (xx) ATP synthesis in the presence of light is called:
(a) Oxidative Phosphorylation (b) Reductive Phosphorylation
(c) Carboxylation (d) Photophosphorylation
- (xxi) In wood plants, gaseous exchange in woody stem takes place through _____.
(a) Stomata (b) Epidermis (c) Lenticles (d) Vessels
- (xxii) _____ serves as "SOURCE" during translocation.
(a) Tracheids (b) Root hairs (c) Mesophyll cells (d) Vessels

----- THE END -----



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SECTION "B"

/12

NOTE: Answer any FOUR of the following questions. Each carries 02 marks.

- Q.2** Why Bacterial cell membrane acts as a respiratory structure?
- Q.3** How Fungi are useful in increasing soil fertility?
- Q.4** Why viruses cannot live without host?
- Q.5** Differentiate between any one of the following in tabulated form.
- (i) Multicellular Algae & Plants
 - (ii) Respiration & Photorespiration
- Q.6** Define any two of the following:
- (i) Toad stools
 - (ii) Hepatitis
 - (iii) Viroids
 - (iv) Heterospory
- Q.7** Why Gametophyte generation is dominant in the life cycle of Bryophyta?
- Q.8** How Slime molds resembles to plants?

SECTION "C"

/09

NOTE: Attempt any ONE from the following. Each question carries 09 marks.

- Q.9** What re spermopsida? How they are adapted to life on land?
- Q.10** Define Aerobic Respiration. Explain the Electron Transport System.

----- THE END -----