

FACULTY OF SCIENCE

Ph. Entrance Examination (Model Paper)

Subject: BOTANY

Note: Answer all the following multiple choice questions in the OMR sheet provided. Each question carries one mark.

- Which of the following organisms serve as indicators of air pollution
a) Mosses b) bacteria c) Lichens d) Flowering plant
- How many nucleotides are present in one turn of DNA helix
a) One b) Eight c) Twenty d) Ten
- In a DNA molecule cytosine is 18%. The percentage of adenine would be
a) 64% b) 32% c) 18% d) 36%
- A gymnosperm plant carries 16 chromosomes in its leaf cells. Then the number of chromosomes in its endosperm shall be
a) 16 b) 24 c) 32 d) 8
- In many bacteria, the cell membrane becomes invaginated and folded to form
a) Cristae b) Mesosomes c) Fimbriae d) Pili
- If a botanist has to nomenclate a similar species, he will use
a) Syntype b) Neotype c) Mesotype d) Isotype
- Which one of the following is a poisonous mushroom
a) *Agaricus* b) *Morchella* c) *Amanita* d) *Peziza*
- The R_f value indicates ratio of the distances travelled by
a) Two solutes b) Two solvents c) Solute to solvent d) Solvent to solute
- Mutations in the coding region of gene that do not change the amino acid sequence of the polypeptide product are called
a) nonsense mutations b) missense mutations c) silent mutations d) frame shift mutations
- The earth summit was held at
a) Geneva b) New Delhi c) Sydney d) Rio-de-Janeiro