

BOTANY PAPER - I (NEW) (11145) BOT-111
Lower Cryptogams

P. Pages : 2

Time : Two Hours

Max. Marks : 40

Instructions to Candidates :

1. Do not write anything on question paper except Seat No.
2. Answersheet should be written with blue ink only. Graph or diagram should be drawn with the same pen being used for writing paper or black HB pencil.
3. Students should note, no supplement will be provided.
4. All questions are compulsory.
5. Figures to the right indicates full marks.
6. Draw neat labelled diagrams wherever necessary.

1. Solve any eight.

8

- a) The study of algae is known as -----
i) Mycology ii) Phycology
iii) Taxonomy iv) Physiology
- b) Which of the following has prokaryotic cells -----
i) Nostoc ii) Ulothrix
iii) Sargassum iv) Spirogyra
- c) An algae growing on aquatic animal is called -----
i) Epizoic ii) Endozoic
iii) Epiphytic iv) Terrestrial
- d) Agar-agar is obtained from -----
i) Ulothrix ii) Spirogyra
iii) Gracilaria iv) Nostoc
- e) The product of photosynthesis in Sargassum is -----
i) Starch ii) Protein
iii) Mannitol iv) Glycerol
- f) Reserve food material in fungi is -----
i) Cellulose & oil ii) Chitin
iii) Protein iv) Glycogen & oil
- g) The fungi in which sexual reproduction is absent are classified in class -----
i) Ascomycetes ii) Deuteromycetes
iii) Phycomycetes iv) Myxomycetes

- h) Rhizopus belongs to class -----
 i) Ascomycetes ii) Basidiomycetes
 iii) Myxomycetes iv) Phycomycetes
- i) Smut and rust diseases are caused by -----
 i) Bacteria ii) Algae
 iii) Viruses iv) Fungi
- j) ----- fungus is used in production of Alcohol.
 i) Yeast ii) Streptomyces
 iii) Rhizopus iv) Agaricus

2. Solve **any four**. 8
- a) What is diversity ? Explain diversity in algae.
 b) What is symbiotic algae ?
 c) Name the reserve food material found in blue green algae.
 d) What are zoospores ?
 e) What are antibiotics ?
 f) What is mycorrhiza ?
3. Solve **any two**. 8
- a) Give the classification with reasons of Nostoc.
 b) Give the distinguishing features of Rhodophyta.
 c) Explain role of fungi as food.
4. a) Solve **any two**. 6
- i) Sketch and label the thallus of Agaricus.
 ii) Describe the male conceptacle of Sargassum.
 iii) Describe sexual reproduction in Rhizopus.
- b) How vegetative reproduction takes place in Nostoc. 2
5. Draw a labelled diagram and describe external morphology of Rhizopus. 8

OR

Give the out-line classification of algae upto classes as given by G.M.Smith with suitable example of each.
