

April-2013

Seat
No.

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कक्ष - 001

BOTANY PAPER - I (NEW) - 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. Draw neat labelled diagram wherever necessary.
5. All questions are compulsory.

1. Solve any eight.

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- a) Diatomaceous earth is obtained from
i) Diatom
ii) Sargassum
iii) Ulothrix
iv) Spirogyra
- b) Reserve food material in fungi is
i) Cellulose
ii) Starch
iii) Protein
iv) Glycogen & Oil
- c) Basidiomycetes produces type of fruiting bodies.
i) Ascocarp
ii) Cleistothecium
iii) Basidiocarp
iv) Basidiospore
- d) Agar-agar is obtained from
i) Ulothrix
ii) Spirogyra
iii) Gracillaria
iv) Nostoc
- e) The fruit body in Agaricus is made up of
i) Primary mycelium
ii) Secondary mycelium
iii) Tertiary mycelium
iv) Diploid mycelium
- f) Which of the following is the result of sexual reproduction ?
i) Zygosporangium
ii) Zoospore
iii) Conidia
iv) Chlamydozoospores
- g) Which of the following is called as 'sea weed'
i) Volvox
ii) Sargassum
iii) Spirogyra
iv) Ulothrix

- h) The cell wall in algae made up of
- | | |
|-------------|---------------|
| i) Chitin | ii) Cellulose |
| iii) Pectin | iv) Glycogen |
- i) Mycology is the study of
- | | |
|--------------------|----------------|
| i) Fungi | ii) Algae |
| iii) Pteridophytes | iv) Bryophytes |
- j) Fusion between gametes of equal sizes is called
- | | |
|--------------|-----------------|
| i) Anisogamy | ii) Oogamy |
| iii) Isogamy | iv) Dichotogamy |

2. Solve any four.

8

- Describe heterotrichous thallus.
- What is prokaryotic cell ?
- What is monoecious & dioecious ?
- Define saprophytes.
- What is plasmogamy ?
- Define Rhizomorph.

3. Solve any two.

8

- i) Write a role of Algae on Agar-agar and Diatomite.
- ii) Describe the mature Basidiocarp.
- iii) Describe briefly distinguishing characters of Cyanophyta.

4. a) Solve any two.

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- i) Describe akinetes of Nostoc.
- ii) Draw & Label the plant body of Sargassum.
- iii) Describe chlamydospores of Rhizopus.

b) Give the systematic position of Sargassum.

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5. Describe the vegetative reproduction of Nostoc with suitable diagrams.

8

OR

Give & describe briefly outline of classification of Division Eumycophyta with examples.
