

April - 2015

खगोल - 005

Seat Number

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**BOTANY PAPER - I : BOT - 111**  
**Lower Cryptogams**  
**(11145)**

P. Pages : 3

Time : Two Hours

Max. Marks : 40

Instructions to Candidates :

1. Do not write anything on question paper except Seat No.
2. Graph or diagram should be drawn with the black ink 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 indicate full marks.
6. Draw neat diagrams wherever necessary.

1. Solve any eight.

8

a) Fusion between gametes of same size is known as \_\_\_\_\_.

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|-------------|----------------|
| i) Isogamy  | ii) Anisogamy  |
| iii) Oogamy | iv) Somatogamy |

b) \_\_\_\_\_ Reserve food is Present in Nostoc.

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|-----------------------|------------|
| i) Cynophycean Starch | ii) Chitin |
| iii) Mannitol         | iv) Starch |

c) Plastids are absent in \_\_\_\_\_.

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|-----------------|-----------------|
| i) Cyanophyta   | ii) Chlorophyta |
| iii) Rhodophyta | iv) Phaeophyta  |

- d) In Sargassum the Part of the Oogonium that forms the pseudostalk is called as \_\_\_\_.
- i) Exochite                                  ii) Mesochite  
iii) Endochite                                iv) Stalk cells
- e) Agar-agar is obtained from \_\_\_\_.
- i) Ulothrix                                  ii) Spirogyra  
iii) Gracillaria                              iv) Nostoc
- f) Coenocytic Mycelium is found in \_\_\_\_.
- i) Myxomycetes                                ii) phycomycetes  
iii) Basidiomycetes                            iv) Ascomycetes
- g) Reserve food material in fungi is \_\_\_\_.
- i) Cellulose                                      ii) Starch  
iii) Protein                                        iv) Glycogen & Oil
- h) Ascocarp type of fruiting bodies are found in class \_\_\_\_.
- i) Ascomycetes                                  ii) Basidiomycetes  
iii) Phycomycetes                                iv) Myxomycetes
- i) \_\_\_\_\_ is a fungus Commonly used as food.
- i) Agaricus                                      ii) Albugo  
iii) Penicillium                                iv) Aspergillus
- j) Rhizopus is also known as \_\_\_\_.
- i) Black mould                                  ii) White rust  
iii) Aquatic Saprophytes                      iv) Symbiotic fungi



8

2. Solve any four.

- i) Give any four general characters of Algae.
- ii) What is anisogamy.
- iii) Give the distinguishing characters of Rhodophyta.
- iv) Explain septate and Aseptate mycelium.
- v) Sketch and label the thallus structure of Rhizopus.

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3. Solve any two.

- i) Explain Sexual reproduction in Algae.
- ii) Role of fungi in industries.
- iii) Sketch label and describe the female conceptacle of Sargassum.

6

4. a) Solve any two.

- i) Explain internal structure of gills in Agaricus.
- ii) Explain Ultra-structure of Nostoc cell.
- iii) Role of algae in industries.

b) Secondary mycelium of Agaricus.

2

5. Describe the modes of nutrition in Fungi.

8

OR

Give outline classification of Fungi as per G.M. Smith up to classes giving two example of each class.

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