M.Sc. (P)

Roll No.

5643

Bio. & Div. of Low. Pla. Cry

M.Sc. (Previous) EXAMINATION - 2022 BOTANY

THIRD PAPER

(Biology & Diversity of Lower Plants Cryptogams)

Time Allowed: Three Hours

Maximum Marks: 100

- Each theory paper will have 9 questions, out of which a student has to attempt 5 questions and the question No. 1 will be compulsory. The question No. 1 will carry 20 marks and will be of short type of questions with a limit of 20 words.
- No supplementary answer book will be given to any candidate. Hence the candidates should write the answer precisely in the main answer book only.
- All the parts of one question should be answered at one place in the answer-book. One complete question should not be answered at different places in the answer-book.
- Answer the following questions briefly:-

2x10=20

- (a) Name the reserve food material found in the cells of cyanophyceae and Rhodophyceae
- (b) Write the systematic position of Microcystis.
- (c) Name the antibiotic obtained from chlorella.
- (d) Name any two modifications of fungal mycelium.
- (e) Define physiological Heterothallism.
- (f) What is spore-elater division?
- (g) Name three types of prothalli found is Lycopodium.
- (h) Write the systematic position of Plagiochasma.
- (i) Write the name of living members of sub-division psilopsida.
- Write the name of two heterosporus pteridophytes.

UNIT - I

Give an account of the habit, habitat and thallus organisation of the algae.

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OR

3. With the help of suitable diagrams describe the life cycle of Hydrodictyon.

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P.T.O.

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20 Describe the important characteristic features of fungi. 10+10=20 5. Write short notes on:-(a) Chaetomium (b) Polyporus. UNIT-III 20 Write a detailed account of life cycle of Notothylus with labelled diagrams. 6. OR 10:10:20 Write short notes on :-(a) Marchantiales (b) Development and structure of mature sporophyte of polytrichum. UNIT - IV With the help of suitable diagrams describe different types of steler system found in pteridophytes 20 8. OR 20 Describe the development of male and female gemetophyte in Isoetes. 9.

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