

B.Sc. (Hons.) Semester I Examination 2016-17

Botany

BOB-101: Cryptogams

Time: Three Hours

Full Marks 70

(Write your Roll No. at the top immediately on the receipt of this question paper)

Note: Attempt *five* questions in all, selecting two questions from each Section (A and B).

Question No. 9 (Section C) is *compulsory*.

SECTION (A)

1. Describe the characteristics features of Rhodophyceae. Give an illustrated account of reproduction in *Polysiphonia*. 15
2. Write short notes on any **two** of the following: 7.5x2
 - (a) Sexual reproduction in *Sargassum*
 - (b) Morphology and reproduction of *Nostoc*
 - (c) Asexual reproduction in *Draparnaldiopsis*
3. With the help of labeled diagrams, give a brief account of morphology and sexual reproductive structures of *Anthoceros*. 15
4. Write short notes on any **two** of the following: 7.5x2
 - (a) Sexual reproduction in *Marchantia*
 - (b) Cap cell and zoospore formation in *Oedogonium*
 - (c) Sporangia of *Ectocarpus*

SECTION (B)

5. Give an illustrated account of various types of spore formation in *Puccinia*. 15
6. Write short notes on any **two** of the following:
 - (a) Reproduction in *Albugo*
 - (b) General characteristics of Ascomycotina
 - (c) Morphology of gill and basidiospore formation in *Agaricus*
7. With the help of suitable diagrams, give a brief account of morphology and reproduction in *Selaginella*. 15
8. Write short notes on any **two** of the following: 7.5x2
 - (a) General characteristics of *Lycophyta*
 - (b) *Alternaria*
 - (c) Reproduction in *Pteris*

SECTION (A)

9. Answer the following (not more than in 50 words each): 1x10
 - (a) Name the reserve food material present in the Xanthophyceae.
 - (b) What is heterokont flagella?
 - (c) Name the pigments present in Cyanophyceae.
 - (d) Zygosporangium is formed in which fungus.
 - (e) Name the fungal group which possesses Crozier.
 - (f) What is dikaryotic phase?
 - (g) What is the function of receptacle in *Sargassum*?
 - (h) What is the function of Vallecular canal?
 - (i) What are the xerophytic characteristics of *Equisetum* stem?
 - (j) What is difference between elator and pseudoelator?
