

**FIFTH SEMESTER B.Sc. DEGREE EXAMINATION, NOVEMBER 2014**

(UG-CCSS)

Core Course

Botany

BO 5B 06—BRYOLOGY, PTERIDOLOGY, GYMNOSPERMS AND PALAEOBOTANY

(2012 Admissions)

Time : Three Hours

Maximum : 30 Weightage

I. Objective type questions. Answer *all* questions. Multiple choice, fill in the blanks and answer in a single word questions :

1 *Funaria* comes under :

- |                               |                    |
|-------------------------------|--------------------|
| (a) <i>Funariopsida</i> .     | (b) Bryopsida.     |
| (c) <i>Anthocerotopsida</i> . | (d) Hepaticopsida. |

2 One among the following is a vascular *cryptogamae*

- |                      |                         |
|----------------------|-------------------------|
| (a) <i>Riccia</i> .  | (b) <i>Anthoceros</i> . |
| (c) <i>Funaria</i> . | (d) <i>Pteris</i> .     |

3 Xylem vessels are presents in :

- |                    |                     |
|--------------------|---------------------|
| (a) <i>Cycas</i> . | (b) <i>Pteris</i> . |
| (c) <i>Pinus</i> . | (d) <i>Gnetum</i> . |

4 One among the following is not a fossil *pteridophyte* :—

- |                           |                           |
|---------------------------|---------------------------|
| (a) <i>Williamsonia</i> . | (b) <i>Rhynia</i> .       |
| (c) <i>Calamites</i> .    | (d) <i>Lepidocarpon</i> . |

5 *Synangium* is present in

6 \_\_\_\_\_ is an Indian *paleobotanist*.

7 Spur shoots are seen \_\_\_\_\_

8 \_\_\_\_\_ are known as the amphibians of the plant kingdom.

9 Which is the advanced type of stele seen in *pteridophytes* ?

10 Name a *pteridophyte* used as *biofertilizer*.

11 Haploid endosperm is seen in which plant group.

12 Gametophytic phase in pteridophyte is known as :

(12 x ¼ = 3 weigh

II. Short answer questions. Answer *all* nine questions :

13 Corolloid root.

14 Heterspory.

15 Lepidodendron.

16 Fossil fuels.

17 Strobilus.

18 Rhizophore.

19 Circinate veneration.

20 Elaters.

21 Pinus needle.

(9 x 1 = 9 weigh

III. Short essay or paragraph questions. Answer any *five* from 7 questions

22 Explain geological time scale.

23 Describe the sporocarp of *Marselia*.

24 Economic importance of Bryophytes.

25 Describe the structure *Cycas* Ovule.

26 Give an account on classification of gymnosperm by Sporne.

27 Explain sporophyte of *Anthoceros*.

28 Describe the stelar evolution in pteridophytes.

(5 x 2 = 10 weightage)

IV. Essay questions. Answer any *two* from 3 questions :

29 Give an account on affinities of gymnosperms with pteridophytes and angiosperms.

30 Describe and illustrate alternation of generation in *Funaria*.

31 Explain the general features of *Equisetum*.

(2 x 4 = 8 weightage)