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Roll No. ....

B.Sc. (Micro.)-I Year

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B.Sc. (Micro.) Examination, May 2017

Biology - II

(B-110)

Time : Three Hours / [Maximum Marks : 50

Note : Attempt five questions in all. Question

No.1 is compulsory. Each question carries equal marks. Draw neat and well labeled diagrams wherever required. Give one word answer.  $1 \times 10 = 10$

- 1 (a) Which class of algae is known as diatoms?
- (b) Who is father of bryology?
- (c) Define osmosis?
- (d) What is Blackman's law?

P.T.O.

(e)

In which plant stomata open at night and close during day.

- (f) Carotenoids.
  - (g) Compensation Point.
  - (h) In which plant group Kranz anatomy is found.
  - (i) Give example of plants in which  $C_4$  cycle is found.
  - (j) What is the function of Xylem in plants?
2. Give the outline classification of Pteridophyta upto class along with suitable examples. 10
  3. Describe the muscular tissue of animals in detail. Give the ultrastructure of striated muscles. 10
  4. What is the difference between  $C_3$  and  $C_4$  plants in relation to  $CO_2$  concentration and light reaction? 10

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5. Comment on: 5+5=10

- (a) Meristamatic tissue in plants
- (b) Parenchyma, Collenchyma and Sclerenchyma.

6. Discuss important characteristics of Chlorophyta, Phaeophyta and Sphenophyta along with suitable examples. 10

7. Write short notes on: 5+5=10

- (a) Photosynthetic pigments
- (b) Xylem and Phloem

8. Discuss about: 5+5=10

- (a) Phagocytosis and pinocytosis
- (b) Simple and stratified epithelium

9. Describe active transport and passive transport in detail along with suitable examples.

10

10. (a) Describe important characters of Bacillariophyta. 5+5=10

(b) Connective tissue in animals