

Seat No. : _____

DI-102

December-2013

B.Sc. (Sem.-I)

CC-3 : Biotechnology : Paper-101

(The Living World)

Time : 3 Hours]

[Max. Marks : 70

Instructions : (1) Draw diagram wherever necessary.
(2) **All** questions carry equal marks.

1. (A) Explain the Whittaker's five-kingdom classification. **7**

OR

Describe the Miller's experiment and its importance.

(B) Explain the Cell theory. **7**

OR

Describe the structures of Mitochondria and Chloroplast with diagrams

2. Explain in detail : (any **TWO**) **14**

(1) Morphogenesis and Differentiation in Plant Growth

(2) Stem and Leaves

(3) Types of plants

(4) Outline of plantae

3. (A) Explain the Animal Evolution. **7**

OR

Explain General characters of Animal.

(B) Write down note about Primitive and Advanced marine animals. **7**

OR

Describe the body organization of animal

4. (A) Explain the reproduction of Fungi. **7**

OR

Explain the reproduction of Viruses.

(B) Describe the economic importance of Algae and protozoa. **7**

OR

Describe the general characteristics of Prion and Virusoid.

5. Answer all in brief :

14

- (1) What is the Extremophiles ?
 - (2) What is the Viroid ?
 - (3) Gives the examples of Bryophytes.
 - (4) Write down the contribution of Woese.
 - (5) Write down the mode of nutrients of Animal Kingdom.
 - (6) Name any two basic tissue systems in the Non Flowering Plant.
 - (7) Which Fungi produce Antibiotic ?
 - (8) Which Protozoa cause the disease ?
 - (9) Which ribosomes are presents in Eucaryotes ?
 - (10) What is the Phytoplankton.
 - (11) Define the Biodiversity.
 - (12) What is the Moss ?
 - (13) Give the two name of Vascular Plants.
 - (14) Give the abbreviation of HIV and TMV.
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