



Total No. of Questions: 4/18

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**FIRST YEAR (Blended)**  
**24 BLBO11101: The Diversity of Life**  
**(Semester I)**

**Program: B.Sc. Blended**  
**Program Specific: B. Sc. Blended (Chemistry)**  
**Course Type: DSC**  
**Paper: I**

**Credits: 2**  
**Time: 2 Hours**  
**Max. Marks: 30**  
**SET: A**

**Instructions to the candidate:**

- 1) All questions are compulsory.
- 2) Figures to the right indicate full marks.
- 3) Draw a well labelled diagram wherever necessary.

**SECTION: A**

**Q1) Answer the following**

**[5 X 1= 5]**

1. What are fungi?
2. How do you differentiate between archebacteria and eubacteria?
3. How do you differentiate between ciliate and flagellate?
4. Define deutrostomes.
5. Give two examples of phylum cnidaria.

**SECTION: B**

**Q2) Answer the following (Attempt any 5/7)**

**[5 X 2 =10]**

1. Write a note of distinct characters of cycadophytes and coniferophytes. Comment on the uses of gymnosperm?
2. What are Dianoflagellates and write their general characters?
3. Why bryophytes are called as amphibians in plant kingdom?
4. Differentiate between chondrichthyes and oestiochthyes.
5. Comment on Lamarckian theory of acquired inheritance.
6. What are arthropods? Give two examples.
7. Water vascular system is a characteristics of which phylum? Comment with examples.

**SECTION: C**

**Q3) Answer the following/Write short notes on following (Attempt any 2/4)**

**[2 X 5 = 10]**

1. Explain the endosymbiotic theory.
2. What are the advantages of sexual reproduction?
3. Write about phylum arthropoda.
4. Write the salient features of class reptilia.

**SECTION: D**

**Q4) Answer the following (Attempt any 1/2)**

**[5 X 1 = 5]**

1. Explain the conjugation in *Spirogyra Sp.* in detail.
2. Define evolution and comment on Darwinism.

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