

**I B. Tech I Semester Regular Examinations, January, 2015**  
**Fundamentals of Biology-I**  
**(Biotechnology)**

Time: 3 hours

Max Marks: 70

**PART – A****Answer ALL questions****All questions carry equal marks**

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**2 \* 10 = 20 Marks**

- 1). a Write any five differences between Lytic and Lysogenic Life Cycle of Virus. [2]
- b Define ( i ) Primary Meristem ( ii ) Secondary Meristem [2]
- c Write a flow chart on classification of Plant Kingdom. [2]
- d What are the different types of Flagellar forms of Bacteria? [2]
- e Write a short note on Polymorphism. [2]
- f Write any five differences between Vertebrates and Invertebrates. [2]
- g Describe the basic characteristics of Nerve Tissues. [2]
- h Differences between (i) Arteries and Veins (ii) Dendrites and Axon [2]
- i What is a Species? What is a Biosphere? Distinguish between Biotic and Abiotic. [2]
- j What are the differences between Monocots and Dicots? [2]

**PART – B****Answer any FIVE questions****All questions carry equal marks**

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**10 \* 5 = 50 Marks**

2. Write a short note on Biodiversity. [10]
3. What is meant by “Phytohormones”? Explain using examples. [10]
4. General characteristics of Pteridophytes and Gymnosperms. [10]
5. How Animals are classified? Give the general characters of Vertebrates. [10]
6. Explain the functions of Pituitary and Thyroid hormones. [10]
7. Explain the structure of Phylum Vertebra and dwell on the role of different skeleton found in these animals. [10]
8. What is a Virus? Explain the structure and function of Virus with an example. [10]

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