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Total No. of Questions : 13]

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**J-3331[S-1187]**

**[2037]**

**B.Sc. (BI) (Semester - 6<sup>th</sup>)**

**MICROBIOLOGY AND VIROLOGY (B.Sc.(BI)-601)**

**Time : 03 Hours**

**Maximum Marks : 75**

**Instruction to Candidates:**

- 1) Section - A is **compulsory**.
- 2) Attempt any **Nine** questions from Section - B.

**Section-A**

**Q1)**

**[15 × 2 = 30]**

- a) Gram Staining.
- b) Budding Fungi.
- c) Hepatitis B.
- d) Microscope.
- e) DNA virus.
- f) Plasmids.
- g) Streptococcus bacteria.
- h) Obligate Intracellular parasite.
- i) Mycology.
- j) Flagella.
- k) Yeast.
- l) Lichean.
- m) Vaccine.
- n) Interferons.
- o) Biotechnology.

**P.T.O.**

## Section-B

[9 × 5 = 45]

- Q2)** What is Biotechnological importance of viruses?
- Q3)** Give Biochemical Classification of bacteria.
- Q4)** What are various phases in growth of bacteria?
- Q5)** Define Plasmids what are various types of plasmids?
- Q6)** Discuss about cell wall of Fungi.
- Q7)** Which are various medium used for growth of bacteria?
- Q8)** What are various methods for Total count and growth measurements.
- Q9)** Briefly discuss life cycle of Ascomycetes.
- Q10)** Explain Lysogenic cycle of viruses.
- Q11)** Discuss about locomotion in bacteria.
- Q12)** How microbial examination is carried out for presence of microorganisms.
- Q13)** Explain Synchronous and Synchronized growth.

