

Mid Semester Test: August-2016

Microbiology and Genetics

**GUJARAT NATIONAL LAW UNIVERSITY
GANDHINAGAR**

Course: **Microbiology and Genetics**
Semester-I (Batch: 2016-21)

Mid Semester Test: August-2016

Date: 12th August 2016

Duration: 1 ½ hours

Max. Marks: 20

Instructions:

- Read the questions properly and write the answers in the given answer book.
- The respective marks for each question are indicated in-line.
- Do not write anything on the question paper.
- Draw the diagrams only with pencil.
- Indicate correct question numbers in front of the answers.
- No questions or clarifications can be sought during the exam period, answer as it is, giving reason, if any.

Q.1 Answer the following briefly. (word limit: 200-250 words)

Marks
(4x3
=12)

- Discuss how a protein can be infectious. Name one human disease caused due to infectious protein.
- With examples discuss any six role of microbes in Industry.
- Explain the two types of life cycle which bacteriophages follow.
- Many of the activities that occur during mitosis and meiosis are different.
Briefly describe one stage of meiosis that is distinctively different from mitosis.

Q.2 Answer the following. (word limit: 350 words)

(2x4
=08)

- What are cell cycle check points? Briefly describe the mechanism of cell cycle regulation.
- Describe apoptosis. (Hint: your answer must include the factors that trigger apoptosis and cellular changes during apoptosis)
