Mid Semester Test: Feb-Mar. 2016

Bio-Technology

# GUJARAT NATIONAL LAW UNIVERSITY GANDHINAGAR

Course: Bio-Technology Semester-II (Batch: 2015-20)



### Mid Semester Test: Feb-Mar. 2016

Date: 05th March 2016 Duration: 1½ 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 any thing 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

## Marks

#### Q.1 Answer the following.

(4x3)

- (a) What is Gene Knockout Technology? Briefly explain the steps involved in generating a Knockout Mouse.
- (b) What is Gene Therapy? Why is Cystic Fibrosis a good candidate for Gene Therapy?
- (c) Enlist any three applications of PCR.
- (d) Enlist important features that a plasmid must have to allow the cloning and amplification of Gene in bacterial cells.

## Q.2 Answer any two of the following.

(2x4 = 08)

(a) Describe different transfection methods successfully used in animals.

- (b) Explain the steps involved in DNA fingerprinting by RFLP. Also add a note on forensic significance of mtDNA.
- (c) Explain the steps involved in cloning of an organism.

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