## Mode of Examination: Open Book Examination

SET-2

Unique Paper Code : 42237903

Name of the Paper : DSE: Animal Biotechnology

Name of the Course : B.Sc. (Prog.) Life Sciences - K

Semester · Semester - V

Duration : 3 hours

Maximum Marks : 75 Marks

## Instructions for Candidates

- Write your Roll No., Name of the paper, Course, Semester, and Date of examination on the first page of answer sheet.
- Attempt 'ANY FOUR' QUESTIONS. All questions carry equal marks.
- Draw well labeled diagrams wherever necessary.

- Q1. Describe the recombinant DNA technology. Enumerate the applications of recombinant DNA technology with suitable examples of each application.
- Q2. Describe the various modification enzymes used in recombinant DNA technology giving example of the chemical reaction catalyzed by each enzyme. Write a short note on Restriction endonuclease enzymes.
- Q3. Describe the use of plasmid pUC 18 and cosmid vectors in gene cloning. Write a short note on expression vectors.
- Q4. Describe the New Generation Sequencing method illumina for DNA sequencing. What advantage it has over the Sanger's method?

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- Q5. Give a detailed account on the production of transgenic animals. Write a note on the applications of transgenic animals.
- Q6. Describe the use of Gene therapy for treatment of genetic diseases along with examples each from in-vivo and ex-vivo method.

## Download all NOTES and