Unique Paper Code: 42237903

Name of the Paper: DSE – AnimalBiotechnology

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

Examination, 2020-CBCS

Semester : V

Duration : 3 hours

Maximum Marks : 75 Marks

Instructions for Candidates

Write your RoNo., Name of the paper, Course Semester, and Date examination on first page of answer sheet.

Attempt ANYOUR questions all questions carry equalrks

Illustrate your answers with appropriate diagrahesevernecessary.

- 1. Recombinant DNA Technology is a multidisciplinary science without overlapping boundaries. Discuss this statement with examples. (18.75)
- 2. Explain the various steps required to clone a gene of interest using pUC19 vector. Briefly explain the nomencature of plasmid vectorsexunthles. (18.75)
- 3. Explain with diagram the technique by which protein identification is delinewit differs from Southern and Northern Blotting? (18.75)
- 4. What is the role of non-coding DNA region comprising of VNTRs and STRs in the process of DNA Fingerprinting? Adubteon its significancin forensic sciences.

(18.75)

- 5. What gene manipulation strategies can be adopted for generating herbicide-resistant plants? Elaborate the strategy that was used for creating Roundup Ready crops that were resistant to glyphosate. (18.75)
- 6. A patient is suffered from a genetic disease that is the result of deletion of phenylalanine at position 508 in CFTR protein. This is the one of the most common lethal autosomal disorders in Europeans and their descendants. What is the name of this disorder? Which

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molecular techniques are used to diagnose the occurrence of specific disorder in human at genetic level? Write number of techniques and describe each. (18.75)

