]	Reg. No. :												
	Question Paper Code: U8D70												
B.E./B.Tech. DEGREE EXAMINATION, APRIL 2024													
One Credit													

Biotechnology

21UBT870 - BIOSAFETY REGULATIONS

(Regulations 2021)

Maximum: 50 Marks Duration: 1.30 hours

Answer All Questions

PART A - $(9 \times 2 = 18 \text{ Marks})$

CO1 - U1. Write a short note on Bio-Safety Cabinet. 2. List some GE Plants and the corresponding countries approved that to cultivate. CO1 - U3. Which agency is responsible for regulating disinfectants? Write a note on it. CO2-App

- 4. Assume that you have transferred a gene into a vector. Now help me with a CO2-App method to identify whether the transformation is successful or not.
- Lab instructor has asked your batch mate to prepare 1N Hcl for adjusting pH of CO3-App your sample. Now, help him to choose a place to prepare it. Justify your answer.
- Illustrate the procedure for getting approval from the regulatory bodies to do CO4 App trials and Environmental release of GMOs.
- 7 Write a short note on PCR.

CO1 - U

8. List some hazards caused by chemicals in the laboratory. CO1 - U

9. Write the procedure for safely removing the gloves. CO1 - U

$PART - B (2 \times 16 = 32 \text{ Marks})$

10. (a) Write a detailed note on different Bio-safety levels and their CO1 – U (16)corresponding safety measures, BSCs and types of microorganisms handled in it.

Or

(b) Write a detailed note on different layers of containments use in CO1 – U (16)biological laboratories.

11. (a) Analyze the requirements that are used to assess the safety of CO3-Ana (16) Golden rice and submit a detailed report on it.

Or

(b) Stark pharma industry has planned to recruit you as a junior scientist CO4- Ana (16) to develop an antibiotic resistant strain. Write a report on developing such GMO to confirm your appointment.