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Question Paper Code: U8D70

B.E./B.Tech. DEGREE EXAMINATION, NOV 2024

One Credit

Biotechnology

21UBT870 - BIOSAFETY REGULATIONS

(Regulations 2021)

Duration: 1.30 hours

Maximum: 50 Marks

Answer All Questions

PART A - (9 x 2 = 18 Marks)

1. Define GRAS. CO1 – U
2. List out the different types of gloves used for laboratory purpose. CO1 – U
3. Write a short note on RCGM. CO1 – U
4. The time required for a control agent to kill 90% of the microorganisms or spores in a sample under specified conditions is called as? Write down its importance. CO2–App
5. Draw the layout of Biosafety cabinet used in your lab with the directions of various airflows. CO3–App
6. Write down the Standard Operating Procedure for Handling Centrifuge. CO4 – App
7. List some statutory committee and their corresponding ministries under which they function. 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 x 16= 32 Marks)

10. (a) You have joined as a junior analyst in Amgen pharmaceuticals for analyzing a GMO derived products. Write the corresponding strategies that you will adapt for detecting them. CO2 – App (16)
Or
(b) Analyze the requirements that are used to assess the safety of Golden rice and submit a detailed report on it. CO2 – App (16)

11. (a) Write a detailed note on different Bio-safety levels and their corresponding safety measures, BSCs and types of microorganisms handled in it. CO1-U (16)
- Or
- (b) Write a detailed note on different layers of containments use in biological laboratories. CO1-U (16)