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B.Sc. RNLKWC-/SEC2T/22

2022

MICROBIOLOGY

[Honours]

B.Sc. Fourth Semester End Examination - 2022

PAPER - SEC2T

Full Marks : 40

Time : 2 hours

*The figures in the right-hand margin indicate marks.
Candidates are required to give their answers in their own
words as far as practicable.
Illustrate the answers wherever necessary.*

Group - A

Answer any five questions :-

5×2=10

1. What is BSL-3? Mention its applications. 1+1
2. What are bacteriocidal and bacteriostatic agents? 1+1
3. Define Incineration. 2
4. Write the significance of MPN test. 2

(Turn Over)

(2)

5. What is the purpose of blanching? 2
6. What is the indexed or organism to test the efficiency of pasteurization. 2
7. Write down the applications of XLD agar. 2
8. Write down the principle of COB test. 2

Group -B

Answer any four questions :- 4×5=20

1. Write down the principle of Nucleic acid probe. Mention its applications.
2. Describe chemical agents for the control of microorganisms. 5
3. Write a short note on 'Biosensor'. 5
4. a) Write down the principles of HACCP.
b) Mentioin the limitations of it. 3+2
5. Give a brief account of food additives. Give two examples of food additives. 4+1

(3)

6. Write down the principle and procedure of MBRT test. 2+3

Group - C

Answer any one question : 1×10=10

1. a) Write down the principle and applications of autoclave.
b) Write a short note on LAL test. (2+3)+5
2. a) Write down the role of different intrinsic factors affecting the growth of microbes in food.
b) Write down the applications of EMB and sabouraud Dextrose agar. 5+5