

Total Pages-03

RNLKWC/B.Sc.-CBCS/IIIS/MCB/H/GE3T/22

2022

Microbiology

[GENERIC]

(CBCS)

(B.Sc. Third Semester End Examination-2022)

PAPER-GE3T

Full Marks: 40

Time: 02 Hrs

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

[Introduction and scope of Microbiology]

Group-A

- Answer any five questions of the following: 5x2=10**
1. What are prions? 2
 2. Define parasitism. Give example. 1+1
 3. Name one symbiotic and one free living bio fertilizer. 1+1
 4. What are sportaneous and non sportaneous generations? 1+1
 5. What is SCP? Give example. 2
 6. What is probiotic? 2
 7. What are secondary and primary metabolites? 1+1
 8. Write down the primary chemical reaction in alcohol fermentation. 2

(2)

Group-B

Answer any four questions of the following: 4x5 = 20

1. Write down the principle of fluorescent microscope.
Write down the difference between light microscope and electron microscope. $2\frac{1}{2} + 2\frac{1}{2}$
2. a) Write down the life cycle of amoeba.
b) What is the importance of phase contrast microscope. 3+2
3. a) Explain the principle of moist heat sterilization.
b) Why moist heat is more effective than dry heat 2+3
4. a) What is meant by immunogen?
b) Describe the different classes of immunogens. 1+4
5. Write short notes on a) Mutualism
b) binomial nomenclature $2\frac{1}{2} + 2\frac{1}{2}$
6. a) What is fermented food?
b) Can you obtain probiotic from fermented foods, how? explain. 2+3

Group -C

Answer any one question: 1x10 = 10

1. a) Write down the contribution of Louis Pasteur to develop the subject Microbiology
b) Write down the Koch postulates 5+5
2. a) Classify fermenters.
b) What is the importance of fermenter in industries. 5+5