

2021

Microbiology

[HONOURS]

(CBCS)

(B.Sc. First Semester End Examinations-2021)

PAPER-GE1T

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

Group-A

Answer any five from the following:

5x2= 10

1. What is spontaneous generation?
2. What do you mean by '+' strand RNA virus? Give example.
3. What are "Viroids" and "Prions"? 1+1
4. Define Commensalism. Give example. 1+1
5. What do you mean by active and passive immunity? 1+1
6. State the properties of an antigen.
7. Define Pasteurization. 2
8. Give an example of water born disease and write its causative agent.

(3)

Name two human diseases caused by bacteria and also mention their causative agents.

What is resolution of a microscope? 4+(1+2)+(1+1)+1

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(2)

Group-B

Answer any four from the following: 4x5 = 20

1. State the principle of electron microscopy. Write the difference between TEM and SEM. 2+3
2. Write briefly note on Koch postulates. 2+3
3. State the five kingdom concept of whittaker. Define Parasitism. 4+1
4. Write the role of microorganisms associated with food spoilage. 3+2
5. State the three kingdom concept according to carl woose.
What are fermented foods? Give one example of Indian fermented food. 3+(1+1)
6. Define antibody and mention its classes. What are probiotics?
Why do probiotic supplements need to be taken daily? (1+1)+(1+2)

Group -C

Answer any one of the following : 10x1 = 10

- 1) Write the major contributions in the field of microbiology by Louis Pasteur. Write the contribution of Antony van Leeuwenhock.
What is monoclonal antibody 5+2+3
- 2) Write a note on spontaneous generation vs biogenesis.
What do you mean by SCP? State its nutritional value.