

201773

C 22074

(Pages : 2)

Name.....

Reg. No.....

SECOND SEMESTER (CBCSS—UG) DEGREE EXAMINATION, APRIL 2022

Food Technology

FTL 2B 03—FOOD MICROBIOLOGY—I

(2021 Admissions)

Time : Two Hours

Maximum : 60 Marks

Section A

Answer atleast eight questions.

Each question carries 3 marks.

All questions can be attended.

Overall ceiling 24.

1. What is pili and fimbriae ?
2. What are the cytoplasmic inclusion bodies in bacteria ?
3. How UV microscope is different from compound microscope ?
4. What are the types of objective lens and give the principle for oil immersion lens ?
5. What are the factors that influences the resolution ?
6. Define contrast, brightness, focus, focal length and refractive index.
7. Brief note on dark field microscope.
8. How fungi is classified based on septa ? Draw the diagram.
9. Define endo spore and its types.
10. What is gram staining ?
11. What is conjugation ?
12. How virus is classified based on its genome ?

(8 × 3 = 24 marks)

Turn over

201773

Section B

*Answer atleast **five** questions.*

Each question carries 5 marks.

All questions can be attended.

Overall ceiling 25.

13. How bacteria is classified based on flagellar arrangement ?
14. Draw and label the parts of a compound microscope.
15. If the wavelength of light source is 630nm and numerical aperture is microscope 1 is 0.45 and that of microscope 2 is 0.60. Calculate the resolving power and identify which microscope has best RP.
16. Define bacterial growth and explain growth phases of with diagram.
17. What are the different asexual reproduction methods in algae ?
18. Explain goose neck flask experiment.
19. Explain gram staining with principle.

(5 × 5 = 25 marks)

Section C

*Answer any **one** question.*

The question carries 11 marks.

20. How abiogenesis was disproved ? Explain in detail.
21. Write detailed note on lytic cycle of a bacteriophage.

(1 × 11 = 11 marks)