

C 81781

(Pages : 2)

Name.....

Reg. No.....

SECOND SEMESTER (CUCBCSS—UG) DEGREE EXAMINATION, APRIL 2020

Food Technology

FTL 2B 03—FOOD MICROBIOLOGY—I

Time : Three Hours

Maximum : 80 Marks

(A) Objective Type (Answer *all* questions) :

Multiple Choices :

1 The causative agent for typhoid is :

- | | |
|------------------------|----------------------------|
| a) <i>Salmonella</i> . | b) <i>Staphylococcus</i> . |
| c) <i>Bacillus</i> . | d) <i>Clostridium</i> . |

2 Tobacco Mosaic Virus contains :

- | | |
|-------------------------|-------------------------|
| a) Single stranded RNA. | b) Single stranded DNA. |
| c) Double stranded DNA. | d) Double stranded RNA. |

3 The maximum magnification achieved in bright field microscopy is :

- | | |
|------------------|-------------------|
| a) 100 times. | b) 1000 times. |
| c) 10,000 times. | d) 100,000 times. |

4 Lytic cycle is seen in :

- | | |
|-------------|--------------|
| a) Viruses. | b) Bacteria. |
| c) Yeasts. | d) Molds. |

5 Spontaneous generation theory is propsoed by :

- | | |
|-------------------|-------------------|
| a) John Needham. | b) Spallanzani. |
| c) Edward Jenner. | d) Louis Pasteur. |

Fill in the blanks

6 Germ theory of disease is proposed by _____.

7 In bacteria, growth rate is reciprocal of _____.

8 _____ is the study of viruses.

Turn over

- 9 The process of gene transfer through viruses is known as _____.
- 10 The common solidifying agent in a bacterial growth medium is _____.

(10 × 1 = 10 marks)

B. Short Answer Type Questions. Answer any *five* questions :

- 11 Transmission electron microscope.
- 12 Refractive index.
- 13 Name different asexual spores of fungi.
- 14 Classify bacteria based on pH requirement for its growth.
- 15 Budding in yeasts.
- 16 Mesosomes.
- 17 Binary fission.

(5 × 2 = 10 marks)

C. Short Essay Questions. Answer any *six* questions :

- 18 Conjugation in bacteria.
- 19 Bacteriophages.
- 20 Koch's postulates.
- 21 Sexual reproduction in fungi.
- 22 Characteristic features of prokaryotes.
- 23 Electron microscopy.
- 24 Theory of spontaneous generation.
- 25 Various types of motility in bacteria.

(6 × 5 = 30 marks)

D. Essay Questions. Answer any *two* questions :

- 26 Explain various physical factors that influence bacterial growth.
- 27 Classify bacteria based on nutritional requirement and discuss about them with suitable example.
- 28 Describe in detail various phases of a typical bacterial growth curve.
- 29 What is a virus ? Describe Baltimore scheme of virus classification.

(2 × 15 = 30 marks)