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(Pages : 3)

Name

Reg. No.....

Maximum Weightage: 30

FIFTH SEMESTER B.Sc. DEGREE EXAMINATION, NOVEMBER 2014

(UG-CCSS)

Open Course—Biotechnology

BT 5D 01—FOOD MICROBIOLOGY AND BIOTECHNOLOGY

Time : Three Hours

I. Objective Type Questions. Answer *all* questions :

1 Water activity of fresh meat and fish :

(a) 0.93 – 0.98.	(b) 0.98 and above.
(c) 0.85 – 0.93.	(d) 0.60 – 0.85.

2 Which is known as diary mold :

(a) Trichothecium. (b) Geotrichum candidum.

(c) Aspergillus flavur. (d) Penicillium chrysogenum.

3 The mold which causes diseases of grapes :

(a)	Spirotrichum.	(b) Trichoderma.
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(c) Botrytis. (d) Scopulariopsis.

4 The micro-organisms used as test organism for penicillin detected in milk :

(a) B. subtilis.	(b) B. pumilus.

(c) B. cereus. (d) B. polymyxa.

5 Pyogenic streptococcus cause mastitis in cow :

(a) S. pyogenes.	(b) S. agalactiae.
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(c) S. thermophilus. (d) S. avicum.

6 Which one is single cell protein :

(a)	Pruteen.	(b) Breed.

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7 Which among is not a thermoduric bacteria :

(a) E.coli.	(b) Bacillus.
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(c) Micrococcus. (d) Streptococcus.

Turn over

(b) Koch. (d) Paul Erlich. 9 Which among is not a food preservative used in food preservation : (b) Acetic acid. (d) Calcium chloride. 10 Which one is a radiation resistant bacteria : (b) Micrococcus roseus. (d) Clostriudium. 11 Which organism produce Aflatoxin :

(b) Penicillum. (a) Aspergillus flavus.

8 Who is father of canning :

(c) Nicolas Appert.

(c) Sodium benzoate.

(a) Micrococcus luteus.

(a) Lactic acid.

(c) Bacillus.

(a) Pasteur.

- (d) Fusarium. (c) Candide albicans.
- 12 The recommended level of sodium nitrite in food :

(a) 500 ppm.	(b) 200 ppm.
(c) 100 ppm.	(d) 400 ppm.

 $(12 X \frac{1}{4} = 3 \text{ weightage})$

II. Short Answer Type Questions. Answer all nine questions :

13 Food additives.	14 What is hydrocooling ?
15 Idli.	16 Xanthan production.
17 Amylases.	18 Botulism.
19 Enterotoxin.	20 Listeria monocytogenes.
21 Flat sour spoilage.	

 $(9 \times 1 = 9 \text{ weightage})$

III. Short Essay or Paragraph Questions. Answer any five questions :

22 Give a brief note on mycotoxins.

- 23 HACCP concept.
- 24 FDA and USDA.
- 25 Chemical food preservative.
- 26 Production of proteolytic enzymes.
- 27 Discuss about different distilled beverages.
- 28 Give an account on oriented fermented foods.

 $(5 \ge 2 = 10 \text{ weightage})$

IV. Essay Questions. Answer any two questions :

29 Write an essay on role of Yeast and mold in food industry.

30 Discuss about general principles underlying microbial spoilage of food.

31 Discuss about microbes in food.

 $(2 \times 4 = 8 \text{ weightage})$