FirstRanker.com

www.FirstRanker.com

www.FirstRanker.com



Total No. of Pages : 02

Total No. of Questions : 09

M.Sc (Food Technology) (2018 Batch) (Sem.–1) FOOD PROCESSING & PRESERVATION Subject Code : MSFT-514-18 Paper ID : [75594]

Time: 3 Hrs.

Max. Marks : 70

INSTRUCTIONS TO CANDIDATES :

- 1. SECTION-A contains SEVEN questions carrying TWO marks each and students has to attempt any ALL questions.
- 2. SECTIONS-B consists of FOUR Subsections : Units-I, II, III & IV. Each Subsection contains TWO questions each carrying FOURTEEN marks each and student has to attempt any ONE question from each Subsection.

SECTION-A

- Q1 a) What do you understand by decimal reduction time?
 - b) Why spores are heat resistant?
 - c) Which scientist discovered Pasteurization?
 - d) What do you understand by cold sterilization?
 - e) Define water activity.
 - f) Write the names of two food borne pathogens.
 - g) What do you understand by Class I preservatives? Give example.

SECTION-B

UNIT-I

- Q2 Write the classification of foods. Discuss the major historical milestones in food processing & write their importance.
- Q3 Write the principle of thermal destruction of microorganisms. Discuss the factors affecting heat resistance of microorganisms.

1 M-75594

(S103)-2435

www.FirstRanker.com



www.FirstRanker.com

www.FirstRanker.com

UNIT-II

- Q4 a) Differentiate between refrigeration and freezing.
 - b) Discuss the different equipments used for the freeze drying of food products.
- Q5 Write short notes on the followings :
 - a) Factors affecting freezing rate
 - b) Freezing curve

UNIT-III

- Q6 Write short notes on the followings :
 - a) Solar dehydration.
 - b) Methods of concentration of fruit juices.
- Q7 What are Intermediate Moisture Foods? Discuss the principle, characteristics, advantages and problems of Intermediate Moisture Foods.

UNIT-IV

- Q8 Write the units, irradiation techniques in food and the recent applications of irradiation in food preservation along with safety issues.
- Q9 Discuss in detail about the microwave processing along with its principle and its application in food processing and preservation.