

JAZ-003-1193004

Seat No.

M. Sc. (Microbiology) (Sem. III) (CBCS) (W.E.F. 2016) Examination

December - 2019

Micro - 316 : Food Biotechnology (Elective)

Faculty Code: 003

Subject Code: 1193004

Time: $2\frac{1}{2}$ Hours] [Total Marks: 70]

- 1 Answer briefly any seven of the following: (2 Marks each) 14
 - (a) What is FDA?
 - (b) What are food borne infections?
 - (c) What is the importance of cheese starter cultures?
 - (d) Define the terms EPA and ISI.
 - (e) Enlist toxins produced by clostridia.
 - (f) What is canning?
 - (g) What is the difference between wine and beer?
 - (h) Highlight the importance of quality assurance in food industry.
 - (i) What is the difference between prebiotics and probiotics?
 - (j) What is putrefaction?
- 2 Answer any two of the following: (7 Marks each) 14
 - (a) Describe the importance of yeasts in the production of wines.
 - (b) Discuss methods used to prevent microbial spoilage of sausages.
 - (c) Explain algae as SCP and methods to produce algal biomass.

- 3 Answer the following: (7 Marks each)
 - (a) Give an account of starter culture microbes. Why are lactic acid bacteria important as starter cultures in dairy industries?
 - (b) Write a note on detection of genetically modified organisms.

OR

3 Answer the following: (7 Marks each)

14

14

- (a) Discuss distribution, morphological diversity and ecological importance of cyanobacteria.
- (b) Describe the role of plant tissue culture for improvement of food additives.
- 4 Answer the following questions: (7 Marks each)

14

- (a) Give a detailed account on sterilization and dehydration as food preservation techniques.
- (b) Discuss the differences between food borne infections and intoxications with suitable examples.
- 5 Answer any two of the following questions: (7 Marks each) 14
 - (a) Give a detailed account on IPR and animal welfare.
 - (b) Write a note on biosensor in food industry.
 - (c) Discuss about microbial quality standards of food.
 - (d) Write a note on HACCP.