



HDY-003-1193004

Seat No. _____

M. Sc. (Microbiology) (Sem. III) (CBCS) Examination

November / December – 2017

MICRO-316 : Food Biotechnology

(Elective)

Faculty Code : 003

Subject Code : 1193004

Time : Hours]

[Total Marks : 70

1 Answer any seven of the following : (2 Marks each)

- (a) What is EPA?
- (b) Define the terms food borne infections and intoxications.
- (c) How probiotic microbes survive in gastrointestinal tract?
- (d) Give importance of genetically modified food.
- (e) What is protoplast fusion?
- (f) What are sausages?
- (g) What is callus?
- (h) What is IPR ?
- (i) Enlist toxins produced by Clostridia.
- (j) What is ISI?

2 Answer any two of the following : (7 Marks each)

- (a) Discuss in detail about production of alcoholic beverages.
- (b) Give an account on yogurt as fermented dairy product.
- (c) Describe the large scale cultivation of edible mushrooms.

3 Answer the following : (7 Marks each)

- (a) Describe methylotrophs as novel microorganism.
- (b) Discuss the methods of detection and diagnosis of genetically modified organisms.

OR

- 3** (a) Describe the role of plant tissue culture for improvement of food additives.
- (b) What are lactic acid bacteria? Explain their probiotic potential.
- 4** Answer the following : (7 Marks each)
- (a) Give an account of various toxins produced by *Aspergillus* species.
- (b) What is food preservation? Discuss any two methods of food preservation in detail.
- 5** Write short note on any two of the following : (7 Marks each)
- (a) HACCP.
- (b) Microbial quality standards of food.
- (c) Risk analysis.
- (d) Biosensors in food industry.
-