PARUL UNIVERSITY

PARUL INSTITUTE OF APPLIED SCIENCES

MID SEMESTER INTERNAL EXAMINATION, APRIL 2018

M. Sc. Food technology Semester II

Paper Name: Fermentation technology
Paper Code: 11213156
Date: 5/3/2020
Time: 1hr 30min

Max. Marks: 40 Instructions:

- 1. All questions are compulsory and options are given in first and second question only.
- 2. Numbers to the right of question indicate the marks of respective question.
- **Q. 1** Attempt any one question of the following.

(08)

- (i) What do you understand by fomenter design?
- (ii) Explain range of fermentation process.
- **Q. 2** Attempt any three questions of the following.

(12)

- (i) What are the factors involved in fermenter design?
- (ii) Explain the process of chasse preparation.
- (iii) Process of wine
- (iv) Process of vinegar
- (v) Process of beer
- **Q. 3** Do as directed. Attempt all five questions.

(05)

- (i) Define the process of fermentation
- (ii) Diagram of prokaryotes with label
- (iii) Flowchart of Bread in short
- (iv) List of factors affecting microbial metabolism while fermentation
- (v) How to control or inhibit the growth of micro-organism while fermentation?
- Q. 4 Write correct option in your answer sheet for following 15 multiple choice questions. (15)

MCQ 1	The process of making beer is known as					
	(A)	Mashing	(B)	Brewing		
	(C)	Malting	(D)	Sparging		
MCQ 2	Which of the following is used to inhibit bacterial growth?					
	(A)	Yarrow	(B)	Chilli		
	(C)	Juniper	(D)	Liquorice		
MCQ 3	What do you mean by "Trophophase?					
	(A)	Production of waste materials	(B)	Production of topical products		
	(C)	Production of primary	(D)	Production of secondary		
		metabolites		metabolites		
MCQ 4	What do you mean by "Idiophase"?					
	(A)	Production of waste materials	(B)	Production of topical products		
	(C)	Production of primary	(D)	Production of secondary		
		metabolites		metabolites		
MCQ 5	Microbial process is advantageous than chemical process.					
	(A)	True	(B)	Fase		
	(C)		(D)			

MCQ 6	Which of the following is not a product of fermentation?					
	(A)	Oxygen	(B)	Carbon dioxide		
	(C)	Ethanol	(D)	Lactate		
MCQ 7	Alcoholic fermentation is carried by yeast known as					
	(A)	Lactobacillus	(B)	Bacillus		
	(C)	Saccharomyces cerevisiae	(D)	Escherichia coli		
MCQ 8	Which of the following is not a probiotic?					
	(A)	Fungi	(B)	Saccharomyces cerevisiae		
	(C)	Escherichia coli	(D)	Lactobacillus		
MCQ 9	Biofuels are products of fermentation.					
	(A)	True	(B)	False		
	(C)		(D)			
MCQ 10	Biorefinery is not an example of fermentation.					
	(A)	True	(B)	False		
	(C)		(D)			
MCQ 11	In the following terms which is not the definition of fermentation process					
	(A)	Do not require an electron	(B)	. Use an organic compound as the		
		transport system		final electron acceptor		
	(C)	Use an inorganic compound as	(D)	Alcohol is formed from sugar		
		the final electron acceptor				
MCQ 12	Pasteur effect discovered in 1857, is					
	(A)	Inhibiting effect of oxygen on	(B)	. Aerating yeasted broth causes yeast		
		the fermentation process		cell growth to decrease, while		
				conversely, fermentation rate		
	(C)	A and B	(D)	increases Akk of the above		
MCQ 13	` ′	nal electron acceptor in lactic acid	` ′			
IVICQ 13	(A)	Oxygen	(B)	Lactic acid		
	(C)	Pyruvat	(D)	NAD		
MCQ 14	` ′	fy the correct sequence during the	` /			
1,100 14	(A)	. Inoculation, screening,	(B)	Screening, Inoculation, fermentation,		
	(11)	fermentation, downstream		downstream processing, removal of		
		processing, removal of waste		waste		
	(C)	Fermentation, screening,	(D)	Fermentation, inoculation,		
		inoculation, removal of waste,		inoculation, removal of waste,		
		downstream processing		downstream processing		
MCQ 15	is the detrimental effect of microorganisms in the food					
	(A)	Generation of flour	(B)	Process of fermentation		
	(C)	. Spoilage of food	(D)	All of the above		