

KERALA AGRICULTURAL UNIVERSITY B. Tech. (Food. Engg.) 2017 Admission

III Semester Final Examination-January 2019

Fdqu.2105

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of causative organisms.

Food Microbiology (1+1)

Marks: 50 Time: 2 hours

	Fill in the blanks: (10x1=10)
1	In food preservation terms, keeping out micro organisms is referred as
2	Psychrotrophs are the microorganisms which can grow and survive at
2	temperature.
3	The coliforms are indicator organisms for conditions in the processing
3	of food.
4	The food pathogen Clostridium botulinum produces neurotoxin known as
5	The bacterial soft rot in carrot is caused by bacteria
	State True or False
6	Thermopiles are the bacteria which can't grow at pasteurization temperature.
7	The spoilage caused by proteolysis of foods under anaerobic conditions is known as putrefaction.
8	In flat sour defect the ends of the cans of the food remain flat during souring.
9	Nicolas Cage preserved the food in can and has been called the 'Father of canning'
10	In water analysis MPN stands for Most Possible Numbers.
	Write Short notes on ANY FIVE of the following (5x2=10)
1	Microbial spoilage of Food
2	Campylobacter jejuni
3	Importance of food plant sanitation
4	Curing of meat
5	Chalky bread
6	Botulism
7	Thermophiles
	Answer ANY FIVE of the following (5x4=20)
1	List out intrinsic factors affecting growth of micro organisms in the food. Explain any
	two.
2	Explain the general types of spoilage of meat caused by bacteria under aerobic conditions.
3	Principles of Food preservation. Brief on hurdle technology.
4	Write on commonly occurring types of spoilages of fruits and vegetables with names

- 5 What do you understand by microbial standards and microbial guidelines? Write the microbiological specifications for ready to serve fruit juices.
- 6 Write on importance of micro organisms in food. List the methods of food preservation.
- 7 What is Food borne disease? Brief on how food borne diseases are classified with examples.

IV Answer ANY ONE of the following

(1x10=10)

- 1 Explain the causes of spoilage and types of biological spoilages in canned foods in detail.
- 2 Define Single Cell protein (SCP) with examples. Write on production method of SCP. Mention advantages and disadvantages of SCP.
