EHS447 MAIN EXAM PAPER 2021



UNIVERSITY OF ESWATINI
Faculty of Health Sciences
Department of Environmental Health Science

BSc IN ENVIRONMENTAL HEALTH SCIENCE FINAL EXAMAMINATION PAPER 2021 EXAM PAPER

TITLE OF PAPER:

FOOD PRESERVATION

COURSE CODE:

EHS447

DURATION:

2 HOURS

MARKS:

100

INSTRUCTIONS:

READ THE QUESTIONS & INSTRUCTIONS CAREFULLY

ANSWER ANY FOUR QUESTIONS

EACH QUESTION CARRIES 25 MARKS

BEGIN EACH QUESTION ON A SEPARATE SHEET OF PAPER

WRITE NEATLY AND CLEARLY

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QUESTION ONE 1. What factors are necessary to consider, when using or choosing chemical preservatives in		
	food, and why?	[10 Marks]
2.	Briefly/discuss sterilization in food preservation?	.[5 Marks]
3.	Briefly discuss Gamma (γ) radiation in food preservation.	[6 Marks]
4.		[4 Marks]
		[25 Total Marks]
QUESTION TWO		
	Why are antioxidants added in food?	[6 Marks]
2.	Name <u>two</u> food items in which the following preservatives are used and <u>o</u>	
۷.	they inhibit in the food.	[8 Marks]
0		[10 Marks]
	Dimerentiate permeent quies messang anna est	
4.	Smoke chemicals do not have bactericidal and bacteriostatic action. (TRU	
		[1 Mark]
		[25 Total Marks]
QUESTION THREE		
1.	Discuss the effects of freezing temperature on microorganisms.	[10 Marks]
2.	Discuss the methylene blue milk test?	[7 Marks]
3.	List four types of microorganisms that spoil food.	[4 Marks]
4.	Explain the following food classification and give examples of the foods.	[4 Marks]
	i) Stable foods[durable]	
	ii) Semi-perishable foods	
		[25 Total Marks]
QUESTION FOUR		
1.	. Name five dangerous microorganisms that may affect cured meat, if it is not handled well. [5 Marks]	
2.	What are the effects of freezing temperature on food?	[10 Marks]
3.	Briefly discuss blanching as a thermal food treatment method.	[5 Marks]
4.	What are the advantages of controlled atmosphere packaging?	[3 Marks]
5.	Name two categories of preservation methods.	[2 Marks]
٠.	manio mo categorico of processiano mente acc	[25 Total Marks]
QUESTION FIVE		
1.	Name three friendly bacteria and state their function in food.	[3 Marks]
2.	Explain the antimicrobial activity of organic acids in food.	[10 Marks]
3.	. Explain the diffinition exists desired a series with a s	
٥.	effects of irradiation on food?	[4 Marks]
1	Discuss the principles of drying in food preservation.	[8 Marks]
4.	Discuss the philopies of drying in lood preservation.	[25 Total Marks]
		[Lao Total Marko]