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1<sup>ST</sup> SEM. 2019/20

#### **UNIVERSITY OF ESWATINI**



PROGRAMME:

BACHELOR OF SCIENCE IN FOOD SCIENCE, NUTRITION AND

**TECHNOLOGY** 

COURSE CODE:

FNS303

TITLE OF PAPER: SENSORY EVALUATION

TIME ALLOWED:

TWO (2) HOURS

INTRUCTIONS:

ANSWER QUESTION ONE (1) AND ANY OTHER TWO (2)

QUESTIONS.

DO NOT OPEN THIS PAPER UNTIL PERMISSION HAS BEEN GRANTED BY THE CHIEF INVIGILATOR.

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# **QUESTION 1 (COMPULSORY)**

		the correct word(s)/phrase(s). Write your answer on the answer sheet. DO write the whole sentence/phrase. e.g. a) 1. Excess fat, obesity
i.		ne word "rancid" can be used to describe andin food nsory analysis.
ii.	It	is always important to remember that if sensory evaluation occurs in a quiet,
iii.		or thetest the panelist, after the training phase, is presented withsample (either A or not-A).
iv.		hen conducting atest, food samples are ranked according to referred
v.	_	of treatments to samples or products ensures each sample hasof receiving any treatment, and that this chance is affected by the treatments assigned to other samples.
		(5x2=10 Marks)
(b) I	Differ	entiate between the following terms:
	i.	Taste vs flavor
	ii.	Recruitment vs screening of panellists
	iii.	Unilateral vs bilateral tests
	iv.	Affective vs preference tests
	v.	Triangle vs duo-trio test
		(5x2=10 Marks)
i	are co P<0.0	drinks, 'A' and 'B', are presented to a panel of 30 assessors. The two samples oded '789' and '379'. The test supervisor accepts a 5% level of significance (i.e. 5). He knows that drink 'A' contains more sugar than drink 'B'. Please answer llowing questions:  What test is being described above?

What are the possible serving sequences for this test?

iii.

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- iv. What are the assumptions of this test?
- v. If the analyst obtained a p-value of 0.03 from the SPSS output, what conclusions would be appropriate to make about these two drinks?

(5x4=20 Marks)

[TOTAL MARKS=40]

## **QUESTION 2**

(a) Describe five (5) applications of descriptive testing and give examples.

(5x2=10 Marks)

(b) What steps are involved when conducting an acceptance test? Discuss in detail.

(5x2=10 Marks)

- (c) Write short notes on the following:
  - i. Assessment of market potential
  - ii. Ranking test

(5x2=10 Marks)

[TOTAL MARKS=30]

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## **QUESTION 3**

(a) As a sensory specialist in your company, you have been tasked with designing a sensory analysis test for the recently produced gluten-free chips. Describe the locations you would consider for testing your new product. Your response should also include advantages and disadvantages of conducting sensory analysis tests in these locations.

(3x5=15 Marks)

(b) Discuss five (5) factors that affect odor assessment.

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(5x2=10 Marks)

(c) Describe the sensation of taste in detail i.e. how do we taste? Your response should also include the different kinds of tastes.

(5 Marks)

[TOTAL MARKS=30]

#### **QUESTION 4**

(a) Foods have several characteristics that require evaluation by sensory methods in order to determine how they are perceived by consumers. Describe **four (4)** attributes/sensory characteristics of food.

(4x5=20 Marks)

(b) Discuss industry applications of sensory evaluation.

(10x1=10 Marks)

[TOTAL MARKS=30]