B. SC. FOOD SCIENCE & TECHNOLOGY

SECOND SEMESTER FOOD ANALYSIS BFST-204

Duration: 3 Hrs.

Marks: 70

PART: A (OBJECTIVE) = 20 PART: B (DESCRIPTIVE) = 50

Duration: 2 Hrs. 40 Mins.

Marks: 50

10

[PART-B : Descriptive]

[Answer question no. One (1) & any four (4) from the rest]

- 1. Write in brief about the types of sensory tests employed for food evaluation.
- 2. Why proximate analysis of food is done? Enlist some methods to remove moisture content of food materials. How can you measure total ash content of a particular food?

 3+3+4=10
- 3. What do you mean by sampling? How samples are prepared & preserved for future use? Write the principle involved in crude fiber estimation 2+6+2 =10
- **4.** What is the difference between subjective & objective evaluation? Briefly explain some sensory characteristics of food. What are the limitations of sensory evaluation? 2+6+2 =10
- 5. What is the significance of food analysis? Mention some physical properties of agricultural raw materials. What are the main steps involved in Micro-Kjeldahl method for protein estimation?

 3+3+4= 10
- Define Chromatography. Write in brief about Paper Chromatography & Thin layer Chromatography.
 2+4+4 = 10
- 7. Explain Atomic Absorption Spectroscopy. How it is different from Atomic Emission Spectroscopy? Write the working principle of Spectrophotometer. 4+3+3 =10
- 8. What do you mean by Statistical Quality Control? Write in brief about the Statistical Methods employed in food analysis to analyze data.

B. SC. FOOD SCIENCE & TECHNOLOGY

SECOND SEMESTER

FOOD ANAL	YSIS	
BFST-20)4	
Duration: 20 Mnts.	Marks: 20	
[PART-A: Ob	ective]	
Choose the correct answer from the followin	<u>1×20=20</u>	
1. The full form of HPLC is a. High Pressure Liquid Chromatograph b. High Performance Liquid Chromatograph c. Heavy Pressure Liquid Chromatograph d. High Purification Liquid Chromatograph	raphy ohy	
2. Soxhlet method is for the estimation of a. Crude Protein c. Vitamin C	b. Crude fat d. Amino Acid	
3. Peroxide value is the measure of a. Degree of un-saturation c. Amount of cholesterol present	b. Type of fatty acid present d. Rancidity	
4. Iodine test is for the detection of presence of a. Fat c. Reducing sugars	in food. b. Starch d. Triglycerides	
5. Xanthoproteic test is to identify a. Aromatic amino acids c. Reducing sugars	b. Fatty acidsd. None of these	
6. Small transparent container which holds sample called	during spectrophotometric analysis is	
a. Quartz c. Cascade	b. Crucible d. Cuvette	
7. Paper Chromatography is based on a. Ion-exchange chromatography b. Size exclusion chromatography c. Partition chromatography d. Adsorption chromatography		

8. The num	ber of members in a drained pa	nel should be	
	a. 1-4	b.5-10	
	c. 10-20	d. None of these	
9. The con	stituent of FCR is		
	a. A mixture of Tungstomol	ybdate & Molybdic acid	
		gstic acid & Phosphomolybdic acid	d l
	c. A mixture of Copper & Ph	nosphoric acid	
	d. All of the above		
		rimetry	
11. In case of	of estimation of sugars, is	added to neutralize the acidity	
	a. Sodium Chloride		
	b. Potassium metabisulphit	e	
	c. Calcium carbonate		
	d. None of the above		
12. The abs	orbance of ascorbic acid is meas		
	a. 660 nm	b. 540 nm	
	c. 450 nm	d. 760 nm	
13. Instrum	ent used to measure the butter		
	a. Butterometer	b. Butyrometer	
	c. Refractometer	d. pH meter	
14. TPA is t	the instrument that measure	of any food sample	
	a. Color	b. Taste	
	c. Texture	d. Quality	
15. Water s	oluble ash =		
	a. Total ash- water		
	b. Total ash -water insolub		
	c. Water -water insoluble a	sh	
	d. None of these.		
16. The app	propriate temperature for the de		
	a. 50°C	b. 750°C	
	c 1020C	d 5500C	DESCRIPTION OF THE PARTY OF THE

17. Full form	a. Dinitro Phenyl Hydrazine b. Dinitro Propyl Hydrogen c. Dinitro Para Hydroxyl d. Dinitro Propyl Hydrazine
18. When the	e moisture content is% or above, non-enzymatic browning will occur a.25 % b.0.25 % c.6 % d.50 %
19. Dilution	test comes under a. Sensitivity test b. Difference test c. Rating test d. Descriptive test
20. Nitrogen	can be estimated by a. Lowry's method b. Micro-Kjeldahl method c. Bradford mrthod d. None of these

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UNIVERSITY OF SCIENCE & TECHNOLOGY, MEGHALAYA



Scrutinizer's Signature

Question Paper CUM Answer Sheet

[PART (A) : OBJECTIVE]

Serial no. of the main			
Answer sheet			

Invigilator's Signature

Course:				
Semes	ter:		Roll No:	
Enroll	ment No:		Course code :	
Course Title :				
Sessio	n: 20)16-17	Date:	
 The paper contains twenty (20) / ten (10) questions. The student shall write the answer in the box where it is provided. The student shall not overwrite / erase any answer and no mark shall be given for such act. Hand over the question paper cum answer sheet (Objective) within the allotted time (20 minutes / 10 minutes) to the invigilator. 				
	Full Marks	Marks Obtained	Remarks	
	20			

Examiner's Signature