[This question paper contains 2 printed pages.]

Sr. No. of Question Paper: 2363

F-4

Your Roll No.....

Unique Paper Code

: 2201403

Name of the Course

: B.Tech. Food Technology

Name of the Paper

: Food Quality and Sensory Evaluation

Semester

: IV

Duration: 3 Hours

Maximum Marks: 75

Instructions for Candidates

1. Write your Roll No. on the top immediately on receipt of this question paper.

- 2. Attempt five questions in all.
- 3. Question No. 1 is compulsory.
- 4. Attempt all parts of a question together.
- 1. (a) Answer these briefly:

 $(2 \times 5 = 10)$

- (i) Define texture. Name the receptors involved in texture perception.
- (ii) Enlist taste abnormalities.
- (iii) Dimensions of colour. Expand CIE.
- (iv) An empirical instrument used to measure texture.
- (v) Advanced instrumental techniques used for gustation and olfaction measurement.
- (b) Name instruments used to measure the following:

 $(1 \times 5 = 5)$

- (i) Colour of oils
- (ii) Hardness of fats
- (iii) Tenderness of peas
- (iv) Dough clasticity
- (v) Primitive odour measurement technique

2.	Justify the following: (Any five)		(3×5=15)
	(a)	Lovibond tintometer is subtractive colorimetery.	
	(b)	Umami taste is imperative in developing Indian snack foods.	
	(c)	Taste perception is dependent on salivary secretion.	
	(d)	Brabender Amylograph is used in studying starch behaviour.	
	(e)	VMQ facilitates in improving bread quality.	
	(f)	Papillae are the organs of taste perception.	
	(g)	The aroma of a compound is affected by its ring structure	
3.	Dif	ferentiate between the following: (Any three)	(5×3=15)
	(a)	Chemistry of Sweet and Bitter taste	
	(b)	Fundamental tests and Imitative tests	
	(c)	Natural Colours and Synthetic colours	
	(d)	Munsell Colour and Hunter colour.	
	(e)	Human nose and E-nose	
4.	(a)	Discuss the importance of colour in food quality evaluation. Enloy of odour measurement and describe any one.	ist methods (4+4=8)
	(b)	Define odour. Describe briefly the various texture measureme used for quality assessment of fruits and vegetables.	nt methods (7)
5.	Wri	ite short notes : (Any 3)	(5×3=15)
	(a)	Attributes of Colour	
	(b)	Factors affecting taste quality	
	(c)	Sniffing	
	(d)	Texture of dairy products	
	(e)	Non destructive methods of Food Evaluation	
6.	Draw diagrams of the following: (Any 3) $(5 \times 3 = 15)$		
	(a)	Taste bud	
	(b)	Rheological Models	
	(c)	Anatomy of Nose	
	(d)	-Structure of Papillae	(500)
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