

**BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI  
(END SEMESTER EXAMINATION)**

**CLASS: IMSc  
BRANCH: IMSc FOOD TECHNOLOGY**

**SEMESTER : VIII  
SESSION : SP/2025**

**SUBJECT: FT411 FOOD PRODUCT DEVELOPMENT & CONSUMER SCIENCE**

**TIME: 3 Hours**

**FULL MARKS: 50**

**INSTRUCTIONS:**

1. The question paper contains 5 questions each of 10 marks and total 50 marks.
  2. Attempt all questions.
  3. The missing data, if any, may be assumed suitably.
  4. Before attempting the question paper, be sure that you have got the correct question paper.
  5. Tables/Data hand book/Graph paper etc. to be supplied to the candidates in the examination hall.
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		CO	BL
Q.1(a)	Enumerate the goals of product development.	[5]	1 2
Q.1(b)	Enumerate the political and ecological environmental factors affecting food product development	[5]	1 2
Q.2(a)	Illustrate effective strategy of New Product Development.	[5]	2 4
Q.2(b)	Elaborate on the stages of development from the simple product idea to the product design specifications	[5]	2 2
Q.3(a)	Illustrate the steps of post-harvest treatment for storage of cereals.	[5]	3 4
Q.3(b)	Point out the twelve basic packaging design principles.	[5]	3 4
Q.4(a)	Classify different test methods in sensory evaluation.	[5]	4 4
Q.4(b)	Classify different types of papilla.	[5]	4 4
Q.5(a)	Explain different types of liquidity ratios.	[5]	5 1
Q.5(b)	Enlist the uses of ratio analysis.	[5]	5 3

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