

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

CLASS: IMSc  
BRANCH: FOOD TECH

SEMESTER : IX  
SESSION : MO/2025

SUBJECT: FT514 NUTRACEUTICALS & FUNCTIONAL FOODS

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)	Define and classify nutraceuticals with examples	[5] I	II
Q.1(b)	Write a note on regulatory aspects of FSSAI on food safety.	[5] II	III
Q.2(a)	Mention the characteristics of Functional foods.	[5] II	III
Q.2(b)	Discuss the role of the dietary fibers as a functional food.	[5] III	II
Q.3(a)	Explain the role of nutraceutical in prevention and treatment of cancer and heart diseases.	[5] III	II
Q.3(b)	Define hypertension. Write about the nutraceuticals used for prevention and control of hypertension.	[5] III	II
Q.4(a)	Discuss about occurrence and Chemical nature of Lycopene.	[5] IV	II
Q.4(b)	Differentiate between polyphenols and flavanoids.	[5] III	IV
Q.5(a)	Differentiate prebiotics and probiotics? Explain how they are beneficial as nutraceuticals?	[5] V	IV
Q.5(b)	Criticize the effect of storage conditions on the potential of nutraceuticals.	[5] V	V

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