

15.12.25

MSc Food Science
3rd Sem



Department of Food Technology Roll No.....
School of Interdisciplinary Sciences and Technology
Jamia Hamdard, New Delhi-110062

M Sc Food Science & Technology (III Sem), End Semester Examination, 2025
Course Title – Functional Foods & Nutraceuticals (MFSD-305)

Time: 2.5 Hours

Max Marks 60

Section A (Answer all the questions) (5*2=10M)

- Q1. Discuss health benefits of peptides & proteins. (CO7/PO1,2)
Q2. Define bioactive phytochemicals. (CO2/PO2,3)
Q3. How honey affects health? (CO6/PO2,3)
Q4. Discuss health benefits of sugar alcohols. (CO7/PO2)
Q5. Discuss beneficial effects of polyphenols. (CO7/ PO1)

Section B (Answer any five questions) (5*5=25M)

- Q6. Elaborate Why human breast milk and goat milk are good for infants? (CO3/ PO3)
Q7. Discuss how management of diabetes can be done through functional foods & nutraceuticals. (CO4/ PO1,3)
Q8. Discuss the mechanism of pancreatitis and its management through diet. (CO4/PO2,7)
Q9. Explain the evidence-based dietary and therapeutic strategies that can be employed to mitigate gastrointestinal disorders. (CO4/ PO1,2)
Q10. Illustrate the role of unsaturated fatty acids in different diseases. (CO7/ PO1,7)
Q11. Explain beneficial effects vitamins in detail. (CO7/PO1,3)
Q12. Discuss the foods recommended & restricted in Obesity. (CO4, PO1)

Section C (Answer any two of the following) (2*12.5=25M)

- Q13. How does cardiovascular disease (CVD) contribute to global mortality trends? Discuss the role of dietary interventions and functional foods in the prevention and management of CVD. (CO4/PO3,7)
Q14. Given that Kalpana weighs 110 kg and has a height of 2 m, calculate her BMI and recommend appropriate dietary choices based on the result. (CO4/ PO1)
Q15. Explain Clinical testing of nutraceuticals and their regulatory issues. (CO9/PO1)
Q16. Describe common nutritional deficiencies and explain how food fortification and supplementation strategies can be employed to correct them. (CO5/PO2,7)