

ASSIGNMENT - 1
M.Sc. DEGREE EXAMINATIONS, DECEMBER -2025

Second Semester

FOOD AND NUTRITION SCIENCE
Paper- I – NUTRITIONAL BIOCHEMISTRY

MAXIMUM MARKS: 30
ANSWER ALL QUESTIONS

1. Discuss about electron transport chain and HMP path way.
2. Describe the differences between glycogenolysis and gluconeogenesis.
3. Write the process of formulation and disposal of ammonia.
4. Enumerate the functions of enzymes and what are the factors affecting enzyme activity.
5. Explain in detail about the oxidation and biosynthesis of fatty acids.

ASSIGNMENT - 2
M.Sc. DEGREE EXAMINATIONS, DECEMBER -2025

Second Semester

FOOD AND NUTRITION SCIENCE
Paper- I – NUTRITIONAL BIOCHEMISTRY

MAXIMUM MARKS: 30
ANSWER ALL QUESTIONS

1. Write a detail note on metabolic interrelationship between lipids and proteins.
2. Explain about the different deficiencies of vitamins?
3. What are the factors influencing bioavailability and requirements of vitamins?
4. Discuss in detail about functions and deficiencies of minerals.
5. Explain in detail about bioavailability of minerals.

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FOOD AND NUTRITION SCIENCE
Paper- II – FOOD PROCESSING AND PACKING TECHNOLOGY

MAXIMUM MARKS: 30
ANSWER ALL QUESTIONS

1. Write about Principles and methods of food processing and preservation?
2. What are the food preservatives? Explain it?
3. Explain about UTH processing and thermal sterilization?
4. Discuss about Dehydration and Concentration methods in food processing?
5. Write about Technology, Benefits and limitations of fermentation?

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FOOD AND NUTRITION SCIENCE
Paper- II – FOOD PROCESSING AND PACKING TECHNOLOGY

MAXIMUM MARKS: 30
ANSWER ALL QUESTIONS

1. What is the process of fermented foods? Explain it?
2. Write about irradiation, Radio frequency and Hurdle Technology methods?
3. Explain about new food products? Write about need for new food product development?
4. Discuss in detail about Advantages and Disadvantages of packaging materials.
5. What are the difficult types of packaging material? Explain their testing?

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FOOD AND NUTRITION SCIENCE
Paper- III – ENTREPRENEURSHIP DEVELOPMENT

MAXIMUM MARKS: 30
ANSWER ALL QUESTIONS

1. Role of entrepreneurship in economic development.
2. Write the assessment of entrepreneurship qualities and personalities.
3. Explain the process of entrepreneurship development.
4. Discuss about the role of women entrepreneur's association.
5. Write the contents of training for entrepreneurial development.

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FOOD AND NUTRITION SCIENCE
Paper- III – ENTREPRENEURSHIP DEVELOPMENT

MAXIMUM MARKS: 30
ANSWER ALL QUESTIONS

1. Explain about evaluating entrepreneurial development programs.
2. Explain about organization of the management team and distribution of tasks.
3. Describe the difference between idea generation and validating the idea.
4. Write the following:
 - a. SIPCOT
 - b. NAYE
 - c. SHG
5. How to develop the business plan and give detailed processes for it.

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FOOD AND NUTRITION SCIENCE
Paper- IV — FOOD REGULATION AND QUALITY CONTROL

MAXIMUM MARKS: 30
ANSWER ALL QUESTIONS

1. What are the sensory and instrumental methods for testing quality of food? Explain it.
2. Write about objectives, importance and functions of quality control of food.
3. Discuss in detail about quality management systems in India.
4. Explain about domestic regulations and global food safety initiative.
5. What are the common adulterants? Discuss about tests to detect adulterants contaminants.

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FOOD AND NUTRITION SCIENCE
Paper- IV — FOOD REGULATION AND QUALITY CONTROL

MAXIMUM MARKS: 30
ANSWER ALL QUESTIONS

1. Discuss in detail note on Nutritive food components and their potential health effects.
2. Write an essay on food laws and regulations.
3. Explain about BIS, Agmark standards and consumer protection act.
4. What are the rules and regulations for setting up of a processing unit? Discuss it.
5. Write in detail about establishment and implementation of HACCP.