



PAPER ID-411167

Printed Page: 1 of 1
Subject Code: BOE413

Roll No:

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

BTECH
(SEM IV) THEORY EXAMINATION 2023-24
FOOD SCIENCE AND NUTRITION

TIME: 3 HRS

M.MARKS: 70

Note: 1. Attempt all Sections. If require any missing data; then choose suitably.

SECTION A1. Attempt *all* questions in brief.

2 x 7 = 14

Q no.	Question	Marks	CO
a.	What are the major functions of food?	2	1
b.	Why is energy needed for life processes?	2	1
c.	What is the concept of food preservation?	2	2
d.	What is a food attribute?	2	3
e.	What are attribute quality characteristics?	2	4
f.	What are the different food packages?	2	4
g.	What do you understand labelling of the package.	2	5

SECTION B2. Attempt any *three* of the following:

7 x 3 = 21

Q no.	Question	Marks	CO
a.	What are nutrients? Classify food on the basis of nutrients.	7	1
b.	Why does our body need nutritious food? Explain.	7	2
c.	Explain the basic principles of food preservation and processing?	7	3
d.	Give the classifications of quality attributes.	7	4
e.	Explain what information should be provided on food package.	7	4

SECTION C3. Attempt any *one* part of the following:

7 x 1 = 7

a.	List various types of nutrients and write the functions of each.	7	1
b.	Write the factors influencing nutrition need.	7	1

4. Attempt any *one* part of the following:

7 x 1 = 7

a.	What is the energy required for the body to maintain basic life processes? Explain in brief.	7	2
b.	Why are molecular movements needed for life? Is this invisible molecular movement necessary for life?	7	2

5. Attempt any *one* part of the following:

7 x 1 = 7

a.	Give the name of methods of food preservation.	7	3
b.	What, in your opinion, is the role of food technology in the modern society?	7	3

6. Attempt any *one* part of the following:

7 x 1 = 7

a.	How many phases are in a quality control cycle? Explain.	7	4
b.	What Is Total Quality Management (TQM), and Why Is It Important?	7	4

7. Attempt any *one* part of the following:

7 x 1 = 7

a.	What are the different types of food packaging materials? Explain with examples.	7	5
b.	Explain nutrition labelling and nutrition claims.	7	5