

H-4/02/22

Roll No.

IV Semester Examination, 2022**M.Sc.****BIOCHEMISTRY**

Paper II

(Nutraceutical Biochemistry & Functional Food)

Time : 3 Hours]

[Max. Marks : 80

Note : All questions are compulsory. Question Paper comprises of 3 sections. Section **A** is objective type/multiple choice questions with no internal choice. Section **B** is short answer type with internal choice. Section **C** is long answer type with internal choice.

SECTION A**1×8=8****(Objective Type/Multiple Type Questions)***Choose the correct answer :*

- 1.** The term Nutraceutical is coined by :
 (a) John Miller (b) Robert H.
 (c) Stephan DeFelice (d) Gregar J. Medal
- 2.** Which one of the following is not a functional food ?
 (a) Dietary Fibre
 (b) Probiotics

P.T.O.

- (c) Omega 3 polyunsaturated fatty acids
- (d) Pills or capsule of food as a part of everyday diets

3. Health benefits of dietary fillers are :

- (a) Reduce blood cholesterol level
- (b) Reduce blood sugar level
- (c) Proper bowel movement
- (d) All of the above

4. Indian gooseberry is :

- (a) *Solanum xanthocarpum*
- (b) *Triticum sativum*
- (c) *Piper nigrum*
- (d) *Phyllanthus emblica*

5. Therapeutic activity of garlic is due to :

- (a) Lignin (b) Bilobilin
- (c) Gingerol (d) Allicin

6. Example of nutraceuticals are :

- (a) Medicinal food
- (b) Dietary supplements
- (c) Functional food
- (d) All of the above

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7. Water soluble vitamins includes :

- (a) Carotinoids (b) Vitamin D
(c) Ascorbic acid (d) Vitamin K

8. Bark of Terminalia arjun is used for :

- (a) Hypertension (b) Diabetes
(c) Asthma (d) None of these.

SECTION B

6×4=24

(Short Answer Type Questions)

Unit-I

1. With suitable example define the importance of ethnomedicine in India.

Or

Write the classification of nutraceuticals.

Unit-II

2. What is nutritional genomics ?

Or

What is the importance of lycopene in human health ?

Unit-III

3. List various nutraceuticals formulation used to treat hypoglycemia.

Or

Define special dietary needs.

Unit-IV

4. Write a note on prebiotics.

Or

With suitable example define inhibitors present in food.

SECTION C

12×4=48

(Long Answer Type Questions)

Unit-I

1. Write an essay on historical perspective and applied aspects of nutraceuticals in India.

Or

Describe the regulations to scrutinize nutraceuticals in India.

Unit-II

2. Write detailed notes on new technologies in development of nutraceuticals and functional food.

Or

Write an essay on nutraceuticals industry and market in India.

Unit-III

3. Write an essay on nutraceuticals rich supplements and their importance in human health.

Or

Write an essay on disease and nutrition.

Unit-IV

4. What is nutritional status ? How nutritional statuses of foods are accessed ?

Or

Write an essay on recent advances in nutraceuticals.

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