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Roll No.

M.Sc. IV Semester Examination, 2021 **BIOCHEMISTRY**

Paper III

(Nutracutical Biochemistry and 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.

SECTIONA

 $1 \times 8 = 8$

P.T.O.

(Objective Type Questions)

Choose the correct answer:

- 1. Naturally occurring compounds found in plants and believed to have health promoting properties are called as
 - (a) Steroids
- (b) Toxoids
- (c) Phytochemicals (d) Chlorofluorocarbons
- **2.** The shelf life determination for nutraceutical's preparation is based on:
 - (a) Safety evaluation data
 - (b) Standardization data

(c) Characterization data

(d) Stability evaluation data

- **3.** As per the FSSAI 2003 guidelines for Nutraceuticals, the list of ingredients that can be used as Nutraceuticals is given in
 - (a) Schedule I
- (b) Schedule II
- (c) Schedule III
- (d) Schedule IV
- **4.** Ephedra is used for the management of :
 - (a) Asthma
- (b) Allergy
- (c) Hay fever
- (d) All the above
- **5.** Synonyms of Ashwagandha is:
 - (a) Indian ginseng (b) Calabar beans
 - (c) Chinese ginseng (d) None of the above
- **6.** Hypericum taken along with Digoxin:
 - (a) Decreases effect of Digoxin
 - (b) Increases effect of Digoxin
 - (c) Inhibit breakdown of Digoxin
 - (d) Increases breakdown of Digoxin
- **7.** The term "nutraceutical" was coined in 1989 by:
 - (a) William Gerwick (b) Metchinoff
 - (c) Stephen De Felice (d) Samuel Thompson

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8. Probiotics are:

- (a) Synthetic nutraceuticals
- (b) Vitamin supplements
- (c) Helpful bacteria
- (d) Digestive enzymes

SECTION B

 $4 \times 6 = 24$

(Short Answer Type Questions)

Note: Attempt one question from each unit.

Unit-I

1. Write short note on:

Applied aspects of the Nutraceutical Science

Or

Sources of Nutraceuticals.

Unit-II

2. Write short note on:

Use of grape products

Or

Flaxseed oil as Nutraceuticals.

Unit-III

3. Write short note on :

Nutraceutical remedies Bronchitis

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Or

Circulatory problems.

Unit-IV

4. Write short note on :

Types of inhibitors present in various foods

Or

Assessment of RDA.

SECTION C

 $4 \times 12 = 48$

(Long Answer Type Questions)

Note: Attempt one question from each unit.

Unit-I

1. Explain Ethnomedicine in India.

Or

Describe Relation of Nutraceutical Science with Medicine and Human physiology.

Unit-II

2. Explain properties, structure and functions of Glucosamine and Octacosanol.

Unit-III

3. Explain with examples how Nutraceuticals bridging the gap between food and drug?

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Or

How Nephrological disorders and Liver disorders can be cure through herbal medicine?

Unit-IV

4. How different types of inhibitors can be inactivated present in various foods?

Or

Describe role of Probiotics are Prebiotics as nutraceuticals.

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