

SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION AND RESEARCH
(A DEEMED TO BE UNIVERSITY)

Integrated B.Sc.-M.Sc. Clinical Nutrition and Dietetics (CND)
Fourth Year Semester- VII March 2022 Examination

Time- 2 Hrs

[Max Marks: 60]

FOOD TOXICOLOGY

QP Code: N7200

*Your answer should be specific to the question asked
Draw neat labeled diagrams wherever necessary*

LONG ESSAY

2x10= 20 Marks

1. Explain qualitative and quantitative analysis of toxicant in foods
2. Explain the Routes of Xenobiotics absorption in an Organism

SHORT ESSAY

5x5=25 Marks

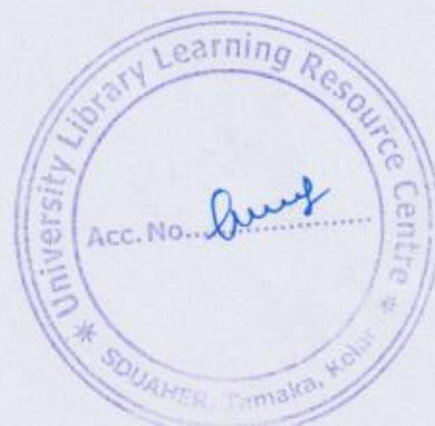
3. Identify tissues and factors involved in biotransformation
4. Discuss examples of known teratogens, mutagens and carcinogens
5. Explain the formation of Millard reaction products
6. Explain the effective dose, margin of safety and the relationship of effective versus toxic dose
7. Discuss the role of Lymph in absorption and distribution of xenobiotics

SHORT ANSWER

5x3=15 Marks

8. What is Hormesis?
9. Mention the braches of toxicology
10. Mention the relationship between toxicology and pharmacology
11. What is genetic toxicity
12. Define phytotoxins. Give an examples

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Max Marks: 60

FUNCTIONAL FOODS AND NUTRACEUTICALS

QP Code: N7220

*Your answers should be specific to the question asked
Draw neat labelled diagrams wherever necessary*

LONG ESSAY

2×10=20 Marks

1. Name antioxidants present in foods explain their role in therapeutic applications.
2. Explain the rich source of fiber and its role in health.

SHORT ESSAY

5×5=25 Marks

3. What are natural sweetener and explain its health benefits
4. Classification of phytochemicals
5. Types and sources of functional foods
6. Explain the health benefits of Conjugated linolenic acid
7. Highlight a brief overview about functional food product in Indian market

SHORT ANSWER

5×3=15 Marks

8. Packaging and labeling requirements for nutraceuticals products
9. Write notes on spirulina and lycopene as food supplement.
10. Write notes on nutraceutical remedies for anti-inflammation properties
11. Write a note on Garlic and Fish oil as a healthy food.
12. Write a note on probiotics and prebiotics

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[Max Marks: 50]

NUTRITIONAL GENOMICS

QP Code: N7230

Your answer should be specific to the question asked

Draw neat labeled diagrams wherever necessary

LONG ESSAY

2 x 6 = 12 Marks

1. Define Lipid and mention its types with examples. Note on functions of lipids
2. Explain the role of Nutritional epigenetics on metabolic syndrome

SHORT ESSAY

6 x 4 = 24 Marks

3. Explain about epigenetic effects related to reproduction in humans
4. Role of gene-gene interaction in obesity and diabetes
5. Explain Genetic Buffering with examples
6. Draw structure of nuclear receptor and discuss on its functions
7. Explain lipolysis with two examples
8. Differentiate genomics and metabolomics

SHORT ANSWERS

7 x 2 = 14 Marks

9. Define SNP with example
10. Name two neurodevelopmental disorders
11. Importance of vitamin D to human
12. Allele and variant
13. Phytoestrogens and steroids
14. Imprinting and Angiogenesis
15. Retrovirus and List LDL subclasses

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Max Marks: 50

QP Code: N 7240

2×6=12 Marks

- 6×4=24 Marks**

- 7×2=14 Marks**

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