

Time: 2 Hours

Marks: 40

- N.B. 1. All questions are compulsory  
2. Figures to right indicate full marks

Q.1 Answer the

12

- i What are Nutraceuticals explain with example.
- ii What are functional foods explain with example
- iii What is adulteration?
- iv What does FSSAI stands for?
- v Write the source and draw structure of Lutein
- vi Give source and uses of Melatonin.
- vii What is Fortification explain with suitable example?
- viii Mention any two nutraceutical advantages of fish oil
- ix Mention any two labelling parameters for nutraceuticals
- x Discuss sulphur containing compounds with suitable example
- xi Give two toxic contaminants in nutraceutical products
- xii Give any two significances of Flax as nutraceutical

Q.2

- i Write a note on maternal & child health nutrition
- ii Classify nutraceuticals based on mechanism of action and mention advantages of nutraceuticals.

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Q.3

- i Give the occurrence, metabolism and pharmacokinetic properties and therapeutic uses of Resveratrol OR Rutin.
- ii Write a note on stability of nutraceuticals.

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Q.4

- i Discuss the regulatory aspects of Nutraceuticals as per EU guidelines
- ii Write a note on Probiotics.

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Q.5

- i Explain any two novel approaches adopted in the effective delivery of formulations containing nutraceuticals.
- ii Discuss any three Pharmacopoeial specifications for dietary supplements and nutraceuticals.

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