

Time: 2 Hours

Marks: 40

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

Q.1 Answer the following

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- i. Define Nutrigenomics.
- ii. What are functional foods? Give example.
- iii. What is intentional adulteration in food?
- 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 example?
- viii. Mention any two nutraceutical advantages of Soy Isoflavones.
- ix. Mention any two limitations of nutraceuticals.
- x. What are dietary fibers? Give example.
- xi. Give any two adverse effects of nutraceutical products.
- xii. Give any two significance of curcumin as nutraceutical.

Q.2 Answer the following

- i. Write on maternal and child nutrition.
- ii. Classify nutraceuticals based on chemical nature.

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Q.3 Answer the following

- i. Give the occurrence, metabolism, pharmacokinetic properties and therapeutic uses of Any one carotenoid.
- ii. Write a note on stability issues of nutraceuticals.

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Q.4 Answer the following

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

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Q.5 Answer the following

- i. Discuss challenges involved in extraction and formulation development of nutraceuticals.
- ii. Write a note on AGMARK

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