

2 Hours

Marks: 40

Please check whether you have the right question paper

N.B. All questions are compulsory.

- Q.1. Answer the following **12**
- i Discuss advantages of 'Nutraceutical' in health care
 - ii Give two examples of Marketed Nutraceuticals for nutrition & ageing
 - iii Name the source and draw the structure of Resveratrol
 - iv What does MPO stand for?
 - v Give the source and uses of Fish oils
 - vi Write the occurrence and use of Shilajit
 - vii Name a Pharmacopeial specification for Dietary Supplement
 - viii Name the enzyme and hydrolysed product in metabolism of Glucosinates
 - ix Name two Limitations of a Nutraceutical with a suitable example
 - x Name any 2 Toxic contaminants present in Nutraceutical Formulations
 - xi Name any two labelling parameters for Nutraceuticals.
 - xii Give the structure and recommended dose of Curcumin as Nutraceutical
- Q.2. i Classify Nutraceuticals based on chemical nature with examples **4**
- ii Discuss Challenges involved in collection of Nutraceutical raw material. **3**
- Q.3. i Describe the regulatory aspects of Nutraceuticals as per US guidelines **4**
- ii Write short note on Carnitine **3**
- Q.4. i Discuss the intentional adulteration & counterfeit labelling of Nutraceuticals **4**
- ii Discuss stability evaluation of Nutraceuticals. **3**
- Q.5. i With suitable examples, explain different types of dietary fibres. **4**
- ii Write a note on occurrence, structure and uses of Lycopene. **3**