

[Time: 2 ½ Hours]

[ Marks:60]

Please check whether you have got the right question paper.

- N.B:
1. All questions are **compulsory**.
  2. All questions carry **equal** marks.
  3. Draw neat and labelled diagram wherever necessary.

Q.1 Give the macro and microscopic characters of *Withania somnifera* root and *Plantago ovata* seed. **12**

OR

Q.1 Give the geographical, distribution, chemical constituents and therapeutic uses of *Zingiber officinale* rhizome and *Azadirachta indica* leaf. **12**

Q.2 What is Pharmacopeia? Give a brief account on Ayurvedic Pharmacopeia with its significance. **12**

OR

Q.2 Explain in detail different phytochemical tests used for quality control of crude drugs and its significance. **12**

Q.3 Discuss the classification and importance of Dietary supplements and Pharmaceuticals. **12**

OR

Q.3 Mention the health benefits of Onion and Turmeric as plant nutraceuticals. **12**

Q.4 Explain the treatment of Hypertension and Diabetes, with the help of plant foods. **12**

OR

Q.4 What are antioxidants? Explain the concept and significance of antioxidants. **12**

Q.5 Write short notes on **any 3** of the following: **12**

- a Biological source and therapeutic uses of *Cinnamon*
- b Bitterness value
- c Oxidative stress
- d Plant food for treatment of Piles
- e Medicinal food
- f Foaming index.