

Q.P. Code :36439

[Time: Three Hours]

[Marks:80]

Please check whether you have got the right question paper.

- N.B:
1. All questions are compulsory.
 2. Illustrate your answers with sketches and structures wherever necessary.
 3. Answers to sub-questions must be written together.

- Q.1 a) State whether true or false and justify all the statements with significant reasons or examples. 08
- i) Xanthum gum is an example of plant origin crude drug.
 - ii) Lactophenol is a good clearing agent.
 - iii) Barks and wood can be differentiated by the presence of xylem.
 - iv) Molish test is used to distinguish between carbohydrates and glycosides.
 - v) Gibberelins are plant hormones that regulate stem elongation.
 - vi) Asbestos is a synthetic fibre.
 - vii) Linoleic acid is an unsaturated fatty acid.
 - viii) Casein is a good fibrinolytic agent.
- b) Answer the following. 12
- i) Give merits and demerits of alphabetical classification of crude drugs.
 - ii) Write in brief the significance of quantitative microscopy.
 - iii) Discuss calcium oxalate crystals as cragastic cell content.
 - iv) Differentiate between Waxes and fats.
 - v) Write in short on any two natural pest control agent.
 - vi) Discuss Talc as a mineral origin drug.
- Q.2 i) Explain the significance and future scope of Pharmacognosy. 04
- ii) Write a note on underground modifications of stems. 04
- iii) Explain Source, preparation, chemical constituents, chemical tests and uses of acacia. 04
- Q.3 i) Differentiate between fruit and seed and explain with labeled diagram the microscopical features of fruit. 04
- ii) Explain steroids and triterpenoids with suitable examples, chemical test and important biological activities. 04
- iii) Give complete pharmacognostic account of fixed oil used as a laxative. 04
- Q.4 i) Give one example, important biological activity and structure of basic chemical nucleus for 04
- a) Isoquinoline class of alkaloids
 - b) Anthraquinone class of glycosides
- ii) Describe the factors to be considered during processing and storage of drugs with suitable examples. 04
- iii) Explain proteolytic enzymes obtained from microbial source. 04

- Q.5
- i) Write a note on Tannis and Lignans. 04
 - ii) Compare and contrast Absorbant and Nonabsorbent cotton. 04
 - iii) Give biological source, chemical constituent and uses of ‘Shatavari’ and “Brahmi”. 04
- Q.6
- i) Discuss with examples dried latex, dried juices and dried extracts. 04
 - ii) a) Give source, composition and application of any one plant lectin. 02
 - b) Give source, constituent and uses of Chirata. 02
 - iii) Write a note on TKP and Chitin. 04
