







- xii) The euphoric principle present in cannabis is
- Cannabinol
  - 1,3,4- trans tetrahydrocannabinol
  - Cannabidiol
  - None of these.

**GROUP - B**

**( Short Answer Type Questions )**

Answer any *three* of the following.  $3 \times 5 = 15$

- What is Indian hemp ? Write a note on various narcotic substances obtained from it.  $1 + 4$
- What are hydrolysable tannins ? Give examples.
  - Write biological source, chemical constituents and uses of the following :
    - Arjuna
    - Ashoka $1 + 2 + 2$
- Describe the morphology of squill with the help of a neat labelled diagram.
- What are the essential requirements for a natural colorant used in Pharmacy ? Write a pharmacognostic note on Saffron or Cochineal.
- Write a short note on any *one* of the following :
  - Myrrh
  - Peru balsam.

**GROUP - C**

**( Long Answer Type Questions )**

Answer any *three* of the following.  $3 \times 15 = 45$

- Classify fibres with example.
  - Write in brief about the preparation of raw and absorbent cotton.

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- c) Mention the differences between raw and absorbent cotton.
- d) Mention biological source, morphology, chemical constituents, chemical test and uses of cotton and wool.
- 2 + 3 + 4 + 3 + 3
8. Define pharmaceutical aids. Mention the differences between light and heavy kaolin. What is the chemical composition of kaolin ? Mention the biological source, chemical composition, preparation, physical description, chemical test and use of the protein containing natural pharmaceutical aids. Mention the chemical composition and use of talc and bentonite.
- 1 + 3 + 1 + 6 + 4
9. Write short notes on any *three* of the following drugs.
- 5 + 5 + 5
- i) Bach
- ii) Gymnema
- iii) Gokhru
- iv) Satavari
- v) Shankhapushpi
- vi) Guggul.
10. a) Give example of a cardenocide you have studied and explain its botanical source, family, diagnostic features, chemical constituents and uses. Give a specific chemical test for cardiac glycosides.
- b) Explain umbelliferone test. 10 + 5
11. a) Write a note on the holistic concept of Ayurvedic system of medicine.
- b) Write down the isolation technique of eucalyptus oil.
- c) Write a note on Psoralea. 5 + 5 + 5