

18/11/11

(REVISED COURSE)

(2 Hours)

[Total Marks : 40]

- N.B. :** (1) Question No. 1 is **compulsory**.
 (2) Attempt any **four** questions from Question Nos. 2 to 7.
 (3) Draw **neat & labelled** diagrams structures wherever **essential**.

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| 1. (a) | Discuss pharmacognosy of 'Senna' or 'Cinechona'. | 4 |
| (b) | Discuss biosynthesis, sources and uses of lysergic acid or 'tropane alkaloids'. | 4 |
| 2. (a) | Give biosynthesis, sources and uses of Aloe-emodin. | 4 |
| (b) | Discuss significance of 'Tinospora' and 'ginko biloba'. | 4 |
| 3. (a) | Discuss sources, preparation and uses of papain and serratiopeptidase. | 4 |
| (b) | Give details of sources, constituents and uses of any two protoalkaloids. | 4 |
| 4. (a) | Discuss sources, collection and uses of opium alkaloids. | 4 |
| (b) | Discuss preparation and uses of jute and absorbent cotton. | 4 |
| 5. (a) | Discuss sources, constituents and uses of 'andira' and 'Rubia'. | 4 |
| (b) | Discuss classification of plant-allergens with suitable examples. | 4 |
| 6. (a) | Give active constituents, their biosynthesis and uses of 'Ipecae' or colchicum. | 4 |
| (b) | Give any two herbs containing naphthoquinone derivatives with their application. | 4 |
| 7. | Give detailed account (any two) :— | |
| (a) | Nux vomica | |
| (b) | Curare alkaloids | |
| (c) | Rhubarb. | |