

Q.P. Code : 75783

(2½ Hours)

[Total Marks : 60

- N.B. :** (1) All the questions are **compulsory**
(2) **Figures** to the right indicate **full marks**
(3) Draw diagrams wherever necessary

1. (a) Enlist the various initiatives taken by Govt of India for the development of pharmaceutical Industry. 8

OR

(a) State the role of analytical chemist in pharmaceutical industry. 8

(b) Elaborate on drug pricing policy and its impact on Indian pharmaceutical industry. 7

OR

(b) Explain the current scenario of Indian pharmaceutical industry with special emphasis on market trends. 7

2. (a) Diagrammatically represent the protocol of solid phase extraction. 7

OR

(a) Explain in brief : 96 well format in SPE 7

(b) What are the criteria for selection of bonded phase in SPE ? 8

OR

(b) Elaborate on SPME. Add a note on its applications. 8

3. (a) What are various factors affecting synthesis of secondary metabolites in plants? Explain with suitable examples. 8

OR

(a) State various aspects of choice of solvent for phytochemical extraction. 8

(b) Give an overview of phytochemical extraction techniques in herbal industry. 7

OR

(b) What are secondary metabolites? Add a note on their functions in plants. 7

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4. (a) Elaborate on SCFE. Explain its applications. 7
- OR**
- (a) Explain SCFC in detail. 7
- (b) Justify "CO₂ has several advantages as a supercritical fluid for SCFE." 8
- OR**
- (b) Explain how addition of modifiers to the system changes the properties of supercritical fluid. 8

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