Time- 2 ½ Hours

Marks-75

| Please check whether you have got the right question paper. | | |
|---|---|------|
| | N.B. 1. All questions are compulsory | |
| | 2. Draw neat labelled diagrams | |
| 3. All questions carry equal marks | | 500 |
| | | |
| Q1 | Attempt any two | 15 |
| a | Define dietary antioxidants. Add a note on the health benefits of dietary antioxidants. | 205 |
| b | Enumerate the role of food as medicine in treating obesity. | 5 5 |
| c | Explain the relationship of diet and skin health. | |
| d | Elaborate on the method of cultivation of <i>Pleurotus</i> . | 2 ES |
| Ω2 | Attempt any two | 15 |
| Q2 a | Give an account on the principle involved in micropropogation technique with | 23 |
| а | reference to floriculture | |
| b | What is plant cell suspension culture? Add a note on importance of cell suspension | |
| | culture. | |
| c | What are artificial seeds? Describe the procedure for the production of artificial | |
| | seeds. | |
| d | Explain the technique of isolation of protoplast .Add a note on Somatic | |
| | hybridization. | |
| | | |
| Q3 | Attempt any two | 15 |
| a | Explain in detail the principle & working of a colorimeter. | |
| b | Give a detailed account of instrumentation of spectrophotometer. | |
| c | Give a brief account of the detectors used in HPLC. | |
| d | What is Ion Exchange Chromatography? Add note on types of resins used. | |
| | | |
| Q4 | Attempt any two | 15 |
| - X. | Describe the propogation methods and harvesting of <i>Acorus calamus</i> . | |
| S.b. | Describe the methods of processing and storage of <i>Curcuma longa</i> . Add a note on | |
| | cultivation practices. | |
| C | Describe biological source, macro and microscopical characters of Clove buds. | |
| o d | Describe chemical constituents and therapeutic uses of <i>Strychnos nux-vomica</i> seeds. | |
| Q5 | Attempt any three | 15 |
| a | Fortification of food of patients with anaemia . | 10 |
| b | Grading and packaging of mushrooms. | |
| C | Protoplast fusion. | |
| d | Advantages of somatic embryogenesis. | |
| e | Applications of colorimeter. | |
| \mathbf{f} | Post-harvest processing of Allium sativum. | |
| 3-43-V | ******** | |
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