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SYBSC Botany Paper III Set-H Answer Key

| | Marks |
|---|--------------|
| Q 1. A. MCQ | |
| a. iii) Indian Pharmacopoeia Commission | 1 |
| b. iv) <i>Saraca asoca</i> | 1 |
| c. ii) Brahmi | 1 |
| d. iii) Ashokarisht | 1 |
| e. i) Phloem | 1 |
| f. iii) Saffron | 1 |
| g. iv) all the above | 1 |
| h. ii) <i>Spirulina</i> | 1 |
| i. i) <i>Garcinia indica</i> | 1 |
| j. i) <i>Carica papaya</i> | 1 |
| Q 1. B. Answer the following in a sentence or two. | |
| a. Secondary metabolites- | |
| • Definition | 2 |
| • Examples (Name of any 2 secondary metabolite) | |
| b. Agroforestry- Definition | |
| c. Spice- | 2 |
| • Definition | 2 |
| • Examples (Any 2) | |
| d. Vanillin- Uses | |
| e. Enzymes- Definition | 2 |
| Q. 2. Answer any two of the following | |
| A. Indian Herbal Pharmacopoeia- | |
| • Definition | 1 |
| • It's Content/ format- | |
| Indian Ayurvedic Pharmacopoeia- | 4 |
| • Definition | |
| • It's Content/ format- | 1 |
| B. | 4 |
| • Secondary metabolites in <i>Phyllanthus amarus</i> | |
| • Adulterants used- Biological source and properties | 5 |
| C. | 5 |
| • Definition of Monograph | |
| • Monograph of <i>Saraca asoca</i> | 2 |
| D. | 8 |
| • Secondary metabolites in <i>Terminalia arjuna</i> | |
| • Uses of <i>Terminalia arjuna</i> | 3 |
| • Effect of <i>T. tomentosa</i> as adulterant on health | 3 |
| Q. 3. Answer any two of the following | |
| A. Urban forestry- | |
| • Definition | 2 |
| • Aims | |
| • Examples of plants | 6 |
| B. Cardamom- | 2 |
| • Botanical name | |
| • Biological source | 1 |
| • Morphology of fruit with diagram | 1 |
| • Uses | 7 |
| | 1 |

| | | | |
|-------|---|--|----|
| C. | Cotton- | | |
| | • Botanical name | | 1 |
| | • Biological source- Lint and Fuzz | | 2 |
| | • Processing- | | 7 |
| | > Ginning | | |
| | > Bailing | | |
| | > Picking | | |
| | > Carding | | |
| D. | Organic farming- | | |
| | • Definition | | 2 |
| | • Its features | | 2 |
| | • ... | | 6 |
| | <i>Advantages & Disadvantages</i> | | |
| Q. 4. | Answer any two of the following | | |
| A. | • Therapeutic uses of Jojoba, Jasmine and Lemon | | 10 |
| B. | Botanical and Nutraceutical | | |
| | • Definition | | 2 |
| | • Role of <i>Spirulina</i> | | 4 |
| | • Role of Chlorella <i>Garcinia</i> | | 4 |
| C. | Biofuel- | | |
| | • Definition | | |
| | • Biological sources Ethanol as Biofuel | | 2 |
| | • Types | | 2 |
| | • Production Biodiesel as Biofuel | | 2 |
| D. | Bromelain- | | |
| | • Definition with biological source | | 2 |
| | • Properties | | 3 |
| | • Uses | | 5 |
| Q. 5. | Write short notes on any FOUR of the following. | | |
| A. | Monograph- Definition and features. <i>Effect of regional variation</i> | | 5 |
| B. | Substitute and Adulterant- Definition and difference. <i>sec. metab.</i> | | 5 |
| C. | Uses of wind break with suitable plant examples. | | 5 |
| D. | Tropical dry forests- Distribution and Plants. | | 5 |
| E. | Nutritional value and Uses of Kale. | | 5 |
| F. | Biogas as biofuel- Sources and Properties. | | 5 |