Paper / Subject Code: 24236 / Botany: Form & Function III

| Tin | ne – 3 hr. | Marks - | - 100 |
|--|--|--|-------|
| | N.B. | All questions are compulsory. Draw neat labelled diagrams wherever necessary. All questions carry equal marks. | Y V V |
| Q.1 | Attempt any two | 5. 7111 questions carry equal marks. | 20 |
| a | | | |
| b | What is translation with reference to protein synthesis? Explain the process of the formation of the initiation complex during translation. | | |
| c Describe the structure and explain the different functions of the nucleolus. | | | 7,7% |
| d | Describe the process | of addition of adenines as a step of pre mRNA processing | 901 |
| Q.2 | Attempt any two | | 20 |
| a | | | 87 P |
| b | Define water potentia | l. What are its components? Explain in detail each component. | |
| c | What is Munch's hyp its demerits. | othesis of passive transport? Explain with an experiment. Add a note on | |
| d | Define transpiration. | What are the various modes of transpiration in plants? | |
| Q.3 | Attempt any two | | 20 |
| a | TTHE COST OF STATE OF | | |
| b | | of in situ bioremediation with examples. | |
| c | | on. Explain any three stages of a Hydrosere citing examples of plants in | |
| d | What is the process of | f succession observed in Lithosere? | |
| Q.4 | Attempt any two | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | 20 |
| 2. - | | ryogenesis? Explain the technique involved in it. | 20 |
| b | | olved in micropropagation with reference to cultivation of Orchids. | |
| c | | eds? Describe the procedure for the production of artificial seeds. | |
| d | | volved in Shikonin production. | |
| O 5 | Attempt any four | | 20 |
| Q. S | Osmosis and its types | | 20 |
| b | Phloem loading | | |
| c | Sequestration of toxic | compounds | |
| d | Phytostabilisation | | |
| e | Monoclimax theory | | |
| f | Importance of cell sur | spension culture | |
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