| Time: 3 Hours | Total Marks: 100 |
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| N.B.: 1) All questions are compulsory.2) Figures to the right indicate full marks.3) Draw neat labelled diagrams wherever necessary. | ENLIDE ALDER CR |
| Q.1 Answer any Two of the following:- A) Describe the structure of a plant vacuole. Enumerate any two of the structure of a plant vacuole in elongation of a protein C) Describe the process of initiation of translation in eukaryotes. | |
| D) What are Polytene chromosomes? Write a note on their structu functions. | ure, occurrence and possible |
| Q.2 Answer any Two of the following:- A) "Transpiration is a necessary evil". Justify and comment on vatranspiration. B) Explain how water potential helps in the translocation of solut C) Describe the role of carriers in transport of solutes across cell | es in plants. membranes. |
| D) What are macronutrients? Describe the role and deficiency symmetrients studied by you. | mptoms of any two |
| Q.3 Answer any Two of the following:- A) What is bioremediation? Explain the role of microbial populat B) What is phytoremediation? Explain phytoremediation of organ C) Define plant succession. Explain any three stages of a hydrose of plants. | nic pollutants by plants. ere citing suitable examples |
| D) Explain the term bioaccumulation? How does bioaccumulation ecosystem? | n take place in an |
| Q.4 Answer any Two of the following:-A) What are artificial seeds? State the various steps involved in pB) Write a detailed note on aspects of micropropagation with reference or chids. | |
| C) Explain the method of production of Shikonin by suspension of D) Give a detailed account of Somatic hybridisation. | culture |
| Q.5 Answer any Four of the following: a) Degeneracy of genetic code b) Composition of phloem sap c) Electrofusion of protoplasts d) Monoclimax theory e) Nucleolus f) Plasmolysis | 20 |
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