

SEAT No. _____

No. of Printed Pages : 2

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SARDAR PATEL UNIVERSITY
T.Y.Bsc. Examination, 2020 (NC)
SEMESTER V
ECOLOGY OF PLANTS
Subject code - US05CBOT04

Date : 29 /12/2020

Day: Tuesday

Time: 2:00 to 4:00p.m.

Total Marks: 70

Note : * All questions are to be attempted.

*Figures to the right indicate marks.

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| Q. 1 | <p>Choose the most appropriate answer.</p> <p>1. Interlocking pattern of chains in an ecosystem is called _____.</p> <p>1. Food Chain 2. Ecological pyramid. 3. Food Web 4. Ecological equivalent</p> <p>2. The collective and continuous growth of plants in space is called.....</p> <p>1. Flora 2. Species 3. Vegetation 4. Factor</p> <p>3. The percentage distribution of species among the various life forms of flora is called _____.</p> <p>1. Biological clock 2. Ectone 3. Biological spectrum 4. Population</p> <p>4. Flowering in plants is affected by temperature through.....</p> <p>1. Thermoperiodism 2. Precipitation 3. Photoperiodism 4. Humidity</p> <p>5. Which pigments in green plants that absorbs the solar energy?</p> <p>1. Chlorophyll 2. Phycocyanin 3. Carotenoids 4. Phycoerythrin</p> <p>6. The rest above the mesosphere up to the height of above 300km from earth's surface is called.....</p> <p>1. Ionosphere 2. Troposphere 3. Atmosphere 4. Stratosphere</p> <p>7. Which mechanical method used for construction of small basins along the slopes to intercept and divert the runoff water.....</p> <p>1. Agronomic practices 2. Dry farming 3. Basin listing 4. Contour terracing</p> <p>8. Major source of soil formation is.....</p> <p>1. Rocks 2. River beds 3. Snow covered mountain 4. Volcanoes</p> <p>9. The occurrence of relatively definite sequence of communities over a period of time in the same area is known as ...</p> <p>1. Competition 2. Composition 3. Colonization 4. Ecological succession.</p> <p>10. The process of seedling establishment and successful growth is called</p> <p>1. Ecesis 2. Dominance 3. Migration 4. Composition</p> | <p>{10x1}=10</p> |
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(P.T.O.)

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| Q. 2 | State True or False: 1. Any external force or substance that affects organisms in any way is known as a Factor. 2. Organism that occupy the same ecological niche in different geographical regions are known as ecological equivalents. 3. Humidity regulates opening and closing of stomata. 4. Water is frozen into ice crystals in the inter seminal place causing injury to cell known as freezing injury. 5. Soil erosion is caused due to heavy rain. 6. Green plants are primary consumers. 7. Growing more trees helps in prevention of soil erosion. 8. Oceanography is the study of sea in all of these aspects physical, chemical, geological, biological . | 1x8=8 |
| Q. 3 | Give brief answer the following questions (Any ten). 1.What is Energy flow? 2.Explain Synecology. 3.Define- Ecological pyramid. 4.Explain seed Dormancy. 5.What is humidity of Air? 6.What is the difference between desiccation & chilling injury? 7.Why water essential for life? 8.Fertile soil has lots of humus why? 9.What is conservation? 10.Write Full form of CPCB. 11.Explain Phytosociological method. 12.Explain Dominance. | 2x10=20 |
| Q. 4 | Answer the following questions (Any Four). 1.Define and explain following terms: Food chain, Species, Adaptation, Ecotone. 2.Define and Explain following terms Standing crop, Biomass, Climax, Pollution. 3. What is Biological clock? Explain in detail. 4. Explain the effects of light on plant. 5. What are natural resources? Explain water resources in detail. 6. Explain Soil profile and Soil conservation. 7. What is Community? Explain different Quantitative characters used in community structure. 8. . Explain the Fresh water ecology. | 8x4=32 |

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