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Plant ecology and phytogeography book pdf

Form-I Basic concepts; Levels of organization. Inter-relationships between the living world and the environment, components and dynamics, homeostasis. Land: relevance; Origin; Formation; Composition; Physicist; chemical and biological components; Soil profile; Climate Role in soil development. Practice-1 Determination of the organic matter of the different soil samples of Walkley and the black rapid titration method. Practical Analysis for 2-carbonates, chlorides, nitrates, sulfates, organic matter and basic deficiency by two soil samples by means of tests on the rapid field. Form-II Water: importance states of water into the environment; Humidity Atmospheric; Types of precipitation (rain, fog, snow, hail, dew); hydrological cycle; Water in the ground; water table. Light, temperature, wind and fire: variations; Adaptations of plants to their variation. Practice-3 Determination of pH of various samples of soil and water (meter of pH, universal indicator / comparator lobili and pH paper) Practice-4 Study of instruments used for measuring microclimatic variables: soil thermometer, maximum and minimum, anemometer thermometer , psicropo / hygrometer, rain gauge and lux meter. Module III-Biotic interactions: trophic organization, the basic source of energy, autotrophy, eterotropo; Symbiosis, commensalism, parasitism; Food chains and tapes; Ecological Pyramids; Biomass collected in the foot. Practice-5 Comparison of the bulk density, porosity and water infiltration rate in the three habitat land. Practice-6 Dissolved Oxygen Determination of water samples from polluted sources and not inquinte. Form-IV Population Ecology: characteristics and dynamics. Community of eco-hope system: the concept of ecological amplitude; Habitat and niche; Characters: analytic and synthetic; Ecotone and effect of the edge; Dynamic: succession & e&acaron "processes, types; Concepts climax. Practice-7 Study of morphological adaptations of idrophytes and Practice xerofiti-8 Study of biotic interactions as follows: parasite stem (Cuscuta), root parasite (Orobanche), epiphytes, predation (insectivorous plants). Module-V Ecosystems: structure; Processes; Organization trophic; food chains and food tapes; ecological Pyramids. Practice-9 Determination of the minimum size of the square for the study of herbaceous vegetation in the university campus, with the method of the species area curve (species to be listed). Practice-10 Determination of the minimum square size for the study of herbaceous vegetation on the college campus, by species curve area method (species list) form-VI functional aspects of ' ecosystem: principles and energy flow models; production and productivity; ecological efficiencies; biogeochemical cycles, carbon cycling, nitrogen and phosphorus. Practice -11 Determination of the minimum size of the square for the study of herbaceous vegetation in the university campus, with the method of the species area curve (species to be listed). Form-VII Phytogeography: Principles; Drift of the continents; Theory of tolerance; endemism; Brief description of the major terrestrial biomes (one each from tropical, temperate and tundra); Division fitogeaografica India; Local vegetation. Practice-12 Visit on the field with 15 Familiarize students in different ecological sites. Textbook: 1. Odum, E.P. (2005). Fundamentals of ecology. Cengage Learning India Pvt. Ltd., New Delhi, 5th edition. 2. Singh, J. S., Singh, S.P., Gupta, S. (2006). ecological environment and resource conservation. Anamaya Publications, New Delhi, India. 3. Sharma, P.D. (2010). Ecology and Environment. Publications Rastogi, Meerut, India. 8th edition. Reference Book: 1. Wilkinson, D. M. (2007). Basic processes in ecology: an approach of the ground systems. Printing the Oxford university, USA. 2. KORMONDY, E.J. (1996). Ecology Concepts. PHI PVT. Ltd., Delhi, India, 4th edition. History of publication This is a table to show the history of publishing works of work on this topic. Along the x axis it is time, and on the Y axis is the count of published editions. Click here to skip the A, this graphic graph edition published on this topic. 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Barbour, 7 books Tyge Witrock B&Acher, 7 books Walter, Heinri CH, 7 books Ivan Moiseevich Krasnoborov, 7 books Hewett Cotrell Watson, 5 books Andreas Franz Wilhelm Schimper, 5 Lance Books H. Gunderson, 5 books CGGJ Van Steenis, 5 books Harold N. Moldenke, 4 books Jaakko Jalas, 4 books Aleksandra Vladimirovna Kuminbova, 4 books Peter Frankenberg, 4 Books Eric Hult&A © N, 4 Books Misael Acosta Sol&A £ S, 4 Books Joakim Fredrerik Schouw, 4 books Wolfgang Frey, 4 books VD Aleksandrova, 3 books Denis Riley, 3 books Eric Hult&A © , 3 books Ludwig Diels, 3 books Ronald Good, 3 books This well-written book discusses the definitions and concepts of ecology plant, ethnobotany and soil science in a simple and easy language to understand. The book discusses a wide range of topics such as environment, ecosystem, succession, adaptations, vegetation, phytogeography, ecological indicators, global warming (green house effect), conservation and management of natural resources. It deals with the impacts of disasters on the environment and biodiversity. Furthermore, the book introduces ethnobotany. Furthermore, the book discusses the definition, origin, training, classification and types of terrain, soil erosion, soil conservation, soil fertility and soil degradation. The text is supported with diagrams, tables and photographs for a better understanding of the concepts discussed. The book is intended for university students and post-graduate students. Furthermore, it would also be useful for those who appear in different competitive exams. Plant Ecology & Ethnobotany: 1. Ecology, 2. The environment, 3. Ecosystem, 4. Autocology, 5. Ecological genetics of population or gene ecology, 6. Synecology or study of communities, 7. Succession of the plant, 8. Plant adaptations, 8. 9. EpiffHytes, 10. Profiles and mangroves vegetation, 11. Principles of phytogeography, climate, vegetation and botanical areas of India, 12. Ecological indicators, 13. 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