

Date - 15-01-2021

Department of Botany - B.Sc - part - II Home

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online class - J.J. College Ara

Dr. Sunil Pandit

Group - B - paper - III

Ecology - Time - 8:30 - 9:30

Question → Describe the Fresh Water and Sea shore vegetation of India?

Ans → Fresh Water vegetation of India → The fresh water vegetation depends upon the supply of oxygen, C₂ mineral salt, nature of substratum, depth of water, temperature and light intensity. The fresh water are ponds, pools, tanks, rivers, lakes etc.

The fresh water vegetation may be found in the form of

- (i) **Submerged plants:** - The plants that are submerged in the deep water of pond, pools and lakes. The common plants are - Hydrilla, Potamogeton, Vallisneria, Utricularia, Ceratophyllum, Chara, Nitella etc.
- (ii) **partly submerged plants:** - The partly submerged plants are Naluumbum (Lotus), Nymphaea (Water lily), Euryale (Makhana)
- (iii) **Free floating plants:** - The plants that float on the surface of water. The plants are Pistia, Azolla, Salvinia, Eichhornia, Trapa, Wolffia, Lemna etc.
- (iv) **Amphibious plants:** - The plants that occur in muds and the closely associated with water as well as soil. The common plants are - Ranunculus, Marsilea, Sagittaria, Cardenthea, Typha etc.

Sea shore vegetation of India: - The sea shore vegetation has been classified into following groups: -

- (i) **Mangrove or Littoral forests:** - These forests are found near Kolkata in Sunderbans and at the bank of Hooghly river. The dominant species are Rhizophora, Avicennia, officinalis, Acanthaceae etc.
- (ii) **Sand dunes or Desert vegetation:** - The sand dunes are generally found on the flat sea coasts. They may occur in deserts also. The sand dunes are developed by gradual drifting of sand. On these sand dunes only those plants grow which can tolerate the exposure of moving sand high temperature in day time, high wind velocity and some salts. Ipomoea pes-caprae is the most common plant.
- (iii) **Beach jungle:** - Beach jungle occurs in Adamans, Sunderbans, along sea coasts of Bengal, Orissa, Madras, Travancore, Cochin and Mumbai. The soil in these areas are sea sand with high lime percentage and low minerals. The common plants are Cocos nucifera and Pandanus.

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