

[74]

Q.1. Multiple Choice Questions (Choose Correct Answer)

- (1) _____ MW of wind energy is costing 1.2 billion USD.
a. 1085 b. 1086 c. 1087 d. 1088
- (2) _____ is not a part of biogas production.
a. Carbonification b. Hydrolysis c. Fermentation d. Acetogenesis
- (3) Biogas does not contain _____.
a. Methane b. Carbon monoxide c. Carbon dioxide d. Hydrogen
- (4) Non renewable resources are _____.
a. Artificial b. Natural c. Remade d. All
- (5) OTEC process uses sea temperature between _____.
a. 10 to 25 b. 5 to 25 c. 5 to 27 d. 10 to 27
- (6) How many National Parks are present in Gujarat ?
a. 5 b. 6 c. 7 d. None
- (7) Vansda is a _____, which is present in Gujarat.
a. Biosphere Reserve b. National Park c. Wildlife Sanctuary d. All
- (8) Mangroves belong to which type of forests?
a. Littoral and Swamp b. Evergreen c. Marine d. Coastal

Q.2. Write a Short Note (Any Seven).

[14]

- (1) Beta Diversity
(2) Biodiversity of Western Himalayas
(3) Factors affecting dwindling of biodiversity
(4) Geothermal energy
(5) Hotspots
(6) Leaf Tannin yielding plants
(7) Technical requirements and specifications of biodigester
(8) Western Ghats
(9) Wood Dye yielding plants

- Q.3. (a) Explain the working of photovoltaic cell with diagram. Describe different applications of PVC related to Solar energy. [06]
(b) What do you mean by nuclear fission and nuclear fusion reactions? Explain advantages and disadvantages of nuclear energy. [06]

OR

- (b) What is the need of wasteland reclamation? Describe the suitable method related to land reclamation. [06]

- Q.4. (a) Discuss pros and cons of non-conventional energy sources in detail. [06]
(b) Write a detailed note on solar and wind energy. Add a note on its advantages and disadvantages. [06]

OR

- (b) Briefly explain the role of MoEF, IUCN, CITES, and TRAFFIC in conservation of endangered species. [06]

- Q.5. (a) Define biodiversity. Explain the types, importance, and strategies of biodiversity. [06]
(b) Explain *in situ* and *ex situ* conservation of biodiversity. [06]

OR

- (b) Enumerate threatened and endangered flora and fauna of India. [06]

- Q.6. (a) Explain advantages and benefits of agro-forestry over forestry and agriculture. [06]
(b) Enlist various types of tropical forests of India. [06]

OR

- (b) Describe Montane Temperate Forests of India. Enumerate plants used for medicinal purposes by local people. [06]

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