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**POST GRADUATE DIPLOMA IN
ENVIRONMENT AND SUSTAINABLE
DEVELOPMENT (PGDESD)**

Term-End Examination

December, 2011

**MED-006 : NATURAL RESOURCE
MANAGEMENT : PHYSICAL AND BIOTIC**

Time : 2 hours

Maximum Marks : 50

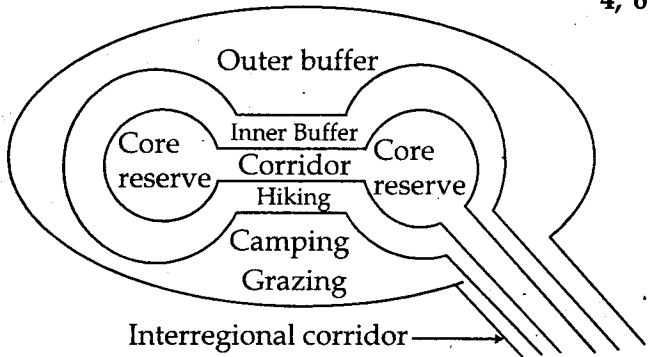
Note : Attempt any five questions. Each question carries ten marks.

1. (a) State the distinction between the following 4, 6 pairs of terms, with regard to the feature mentioned against them :
- (i) Red soil and lateritic soil _____ formation of the soil.
 - (ii) α and β species diversity _____ number of ecosystems involved.
 - (iii) Deterministic and stochastic process of extinction _____ process of extinction.
 - (iv) Renewable and non - renewable energy sources _____ one suitable example each.

- (b) Name and discuss two transfer technologies used for improving the reproductive potential of captive mammalian populations.
2. (a) Answer in one or few words : 4, 6
- (i) Of the three levels, of diversity which is at a higher level than the other two ?
 - (ii) What does the statement, 'Wetland and estuaries are transitional biomes', signify ?
 - (iii) Why is India included amongst world's megadiversity countries ?
 - (iv) Name a technique which creates GMOs.
- (b) 'Biodiversity provides us with life - sustaining services'. Justify this statement by mentioning these services and describing any two of them.
3. (a) State various reasons for which importance of Wetlands as ecosystems has been recognised. 4, 6
- (b) In what ways do "too little water" and "too much water", both pose problems ?

4. (a) How did crude oil and gas form in the reservoirs? 6, 4
- (b) What are energy plantations?

5. (a) 4, 6



What does the above diagram depict?
 What do the areas marked as, buffer and corridor represent?

- (b) What are the major impacts of biodiversity loss? Briefly explain.
6. Write notes on *any four*: 10
- (a) Seed Banks
- (b) Ecotourism
- (c) Environment Impact Assessment (EIA)
- (d) Biodiversity Act 2000.
- (e) Communication for biodiversity conservation.