

END TERM MODEL QUESTION PAPER - 2014

Sub: Environmental Studies

Paper code: E/EN-114

Max Time - 3:00 hrs

Max Marks - 75

* Q.1 is compulsory. Attempt any four from others.

- Q.1 (a) The flow of energy is one way and continuous in an ecosystem. Explain.
- (b) What are the objectives of environmental studies.
- (c) Define Rare, Threatened and Endangered species with examples.
- (d) Differentiate malnutrition and undernutrition.
- (e) Explain OTEC (Ocean thermal energy conversion).
- (f) Describe surface and subsurface mining.
- (g) What are the effects of deforestation on tribal people?
- (h) Define the terms ED₁₀, LD₅₀, TD₂₀.
- (i) What do you mean by photostabilizers?
- (j) What are wastelands? How do you classify wastelands? (2.5 x 10 = 25)

- Q.2 (a) Discuss the structure and functions of an ~~Estuarial~~ Estuarial Ecosystem.
- (b) Explain 'In-situ' and 'Ex-situ' conservation of biodiversity.
- (c) What do you understand by 'Hot spots of biodiversity'? Name and briefly describe the two hot spots of bio-diversity that extend into India. (4+5+3=12)

- Q.3 (a) Describe the different values of biodiversity.
- (b) Environmental studies is multidisciplinary in nature. Justify your statement. (7+5=12)

- Q.4 (a) Discuss the benefits & problems of Dams.
- (b) What are the impacts of modern agriculture?
- (c) What is the difference between conventional and nonconventional energy resources? (5+5+2=12)

Q 5(a) write short note on:

- (i) Salinity and water logging
- (ii) Shifting cultivation
- (iii) Methods of water harvesting.

(b) write the various causes and impacts of Drought. (7.5+1)

Q 6. (a) Discuss the impacts of mercury on environment.

(b) What are the principles of Green Technology?

(c) In which of following reactions have atom-

Economy less than 100%.

- (i) Addition reaction
- (ii) Rearrangement reaction
- (iii) Substitution reactions
- (iv) Condensation polymerization.

Justify your answer with suitable examples.

Q 7. (a) What are biopolymers and bioplastics? Explain with examples.

(b) Explain the terms potentiation and synergism.

(c) Explain Bioremediation & its different types.

Q 8 (a) What is sustainable development? Define the carrying capacity of the earth.

(b) Write short notes on:

- (i) Greenhouse effect
- (ii) Acid rain
- (iii) Environmental degradation.

Q 9. (a) What are the requirements for good flood risk management?

(b) Discuss briefly the provision of the following acts

(i) Water (Prevention control of Pollution) Act

(ii) Wildlife Protection Act 1972