

2024

( Value Added Course )

Paper : VAC0100802



( **Environmental Ethics and Forest Ecology** )

*Full Marks : 30*

*Time : 1½ hours*

*The figures in the margin indicate full marks  
for the questions*

1. Choose the correct options from the following : 1×5=5
- (a) Which of the following is associated with 'Environmental Ethics'?
- (i) Air pollution
  - (ii) Resource depletion
  - (iii) Global climate change
  - (iv) All of the above
- (b) According to Ernst Haeckel, 'Ecology' properly indicates
- (i) interactions among living organisms
  - (ii) interactions among different ecological factors

- (iii) reciprocal relationship between organisms and environment
- (iv) environmental crisis
- (c) Baseline situation in EIA indicates
  - (i) existing environmental condition
  - (ii) affected environmental condition
  - (iii) activity-associated condition
  - (iv) All of the above
- (d) The 'Forest Man' title to Jadav Payeng was given by
  - (i) A. P. J. Abdul Kalam
  - (ii) R. Misra
  - (iii) Sunderlal Bahuguna
  - (iv) Shubhendu Sharma
- (e) The highly diverse ecosystem is
  - (i) tropical rain forest
  - (ii) temperate forest
  - (iii) grassland
  - (iv) savanna

2. Answer any *five* of the following questions : 2×5=10
- (a) Define environment. What are the principal components of environment?
  - (b) What do you mean by responsible innovation?
  - (c) Define ecology. What are the principal components of ecology?
  - (d) Define EIA. What are the principal processes involved in EIA?
  - (e) Write about the different ecological levels of organization.
  - (f) What are the significances of a forest?
  - (g) What are the features of an invasive weed?
  - (h) Discuss on the factors associated with forest health.
  - (i) What are the characteristic features of tropical rain forests?
  - (j) Differentiate between temperate rain forest and boreal forest.

( 4 )

3. Write notes on any *three* of the following :

5×3=15

- (a) Ethical theories and its application on environment
- (b) Significance of equitable resource utilization
- (c) Different components of EIAs
- (d) Ecological principles for sustainable environment
- (e) Structure and function of forest ecosystem
- (f) Prevention and control of forest fire

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