

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

$$5 \times 3 = 15$$

- (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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(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 : $1 \times 5 = 5$

(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

(2)

- (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

(3)

2. Answer any *five* of the following questions : $2 \times 5 = 10$

- (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.