

S-1/EVSG/01/18

TDP (General) 1st Semester Exam., 2018

ENVIRONMENTAL SCIENCE

(General)

[DSC/GE]

FIRST PAPER

Full Marks : 60

Time : 3 Hours

*The figures in the margin indicate full marks.
Candidates are required to give their answers
in their own words as far as practicable.*

Section-A

1. Answer any six of the following questions :

2×6=12

- (a) What is Orogenesis ?
- (b) What is ecesis ?
- (c) What is detritus food chain ?
- (d) What is Continental drift ?
- (e) Name two famous environmental movement.

[Turn Over]

- (f) What is eco-club ?
- (g) What is photovoltaic cell or solar cell ?
- (h) Name four bio-fuel plants.

Section - B

Answer the following questions. $12 \times 4 = 48$

2. (a) What is pedogenesis ? Explain in details about the factors involved in pedogenesis. Briefly discuss the process of metamorphism of rocks. $2+5+5=12$

Or,

- (b) Describe the composition and structure of earth. What is plate tectonics ? Discuss the plate tectonic theory in details. $5+2+5=12$

3. (a) Write down the goal, objectives and guiding principles of environmental education. Write a note on women education in India. $(2+2+3)+5=12$

Or,

(b) Write short notes on following :

- (i) Narmada Bachao Andolan.

(3)

(ii) Role of IUCN and UNESCO in environmental conservation.

(iii) Role of different national organizations/agencies in environmental protection in India.

4+4+4=12

4. (a) What is ecological succession? Mention the types of ecological succession. Describe in detail different stages of ecological succession. Write down the different species interaction.

2+2+5+3=12

Or,

(b) Discuss Shelford's Law of Tolerance. Write short note on the following :

(i) Natality.

(ii) Mortality.

(iii) Age Structure.

3+(3+3+3)=12

5. (a) Write a note on sustainable forestry. Discuss the different strategies taken for forest management and water management.

4+(4+4)=12

Or,

[Turn Over]

(4)

(b) Briefly describe about Ocean Thermal Energy Conversion (OTEC). Discuss advantages and disadvantages of solar energy. Suggest alternative energy sources with special reference to India.

4+4+4=12
