

Time: 2½ hrs.

Marks:75

Note:

1. All questions are compulsory with internal options.
2. The figures to the right indicate full marks.
3. Draw a neat diagram wherever necessary.

Q. 1 (A) Fill in the blanks with the correct answer from the alternatives given below. (08)

(Attempt any 8)

- (1) The process in which only the best suited organisms survive is called _____.
 (a) Adaptation (b) Competition
 (c) Symbiosis (d) Natural Selection
- (2) Improved cutting process includes _____.
 (a) Selective cutting (b) Strip cutting
 (c) Clear cutting (d) All of the above
- (3) The most common form of location given in terms of latitudes and longitudes is called _____.
 (a) Absolute location (b) Relative location
 (c) Continental location (d) None of the above
- (4) The graphical representation that depicts the number of organisms, biomass, etc. at each trophic level is called _____.
 (a) Pyramid (b) Bar Graph
 (c) Circle (d) Line Graph
- (5) The Environmental Impact Assessment should be conducted _____ the project.
 (a) before the commencement of (b) during
 (c) after the completion of (d) any time before or after
- (6) Which of the following is a disadvantage of Organic Farming?
 (a) Food illnesses (b) Healthier farm workers
 (c) Low cost of production (d) Reduced global warming
- (7) The group of organisms that convert light into food are called _____.
 (a) Heterotrophs (b) Autotrophs
 (c) Omnivores (d) Decomposers
- (8) The _____ requirements provide a framework and guidelines for creating the environmental management system.
 (a) ISO 14000 (b) ISO 14001
 (c) ISO 9000 (d) ISO 1400
- (9) Disaster Management includes how many stages?
 (a) 4 (b) 7
 (c) 5 (d) 3
- (10) A food web consists of _____.
 (a) A portion of food chain (b) An organism's position on food chain
 (c) Interlocking food chains (d) A set of similar consumers

(B) State whether the following statements are True or False. (Attempt any 7) (07)

- (1) The population of an organism decreases as we move up in the food chain.
- (2) Disaster management systems are predesigned plans of action.
- (3) Only 10% of net energy production is passed from one trophic level to another.
- (4) Mitigation means minimising the effects of disaster.
- (5) The least favoured option in the Waste Management Hierarchy is disposal.
- (6) Organic farming makes use of chemical fertilizers and mechanised equipment.

- (7) Sustainable development means meeting the present needs without compromising the future needs.
- (8) Wind energy is a clean form of energy.
- (9) The rise and fall of temperature in a natural water body caused by human influence is called water pollution.
- (10) The practice of cultivating crops in alternative strips to prevent water movement is called Contour Farming.

Q.2 (a) Explain the meaning of the term "resource." What are the factors that determine the importance of resources? (08)

(b) What do you mean by Ecosystem? Explain the Energy Flow Pyramid in brief. (07)

OR

Q.2 (p) What is Environment? Explain its components in detail. (08)

(q) Elaborate on the various methods of conservation of resources. (07)

Q.3 (a) Explain disaster management cycle with the help of a diagram. (08)

(b) Discuss the causes of environmental degradation. (07)

OR

Q.3 (p) Explain the meaning of Degradation of Forests. Describe the Environment Management Plans to create a sustainable system of forestry. (08)

(q) What is waste? Explain the different waste management techniques. (07)

Q.4 (a) What is an environmental audit? Discuss its types. (08)

(b) Write a detailed note on ISO 14001. (07)

OR

Q.4 (p) Explain how carbon bank and Kyoto Protocol would lead to reducing the carbon footprint in the world. (08)

(q) Define sustainability. Explain the process of Environmental Impact Assessment (EIA). (07)

Q.5 (a) What are the advantages and disadvantages of Organic Farming? (08)

(b) Explain how the heat inside the Earth can be used for generation of energy. (07)

OR

Q.5 (p) Write short notes on (Attempt any 3) (15)

(1) Wildlife Protection Act

(2) Green Marketing Mix

(3) Ecotourism

(4) Food Web

(5) Air Pollution

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