

Printing Pages : 2

Paper Code: B150601T

B (SVSU:2024-25/R)

Enrollment No.

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Program Name: B.Sc. Environmental Science

VI Semester / III Year Examination

Subject Name: Environmental Legislation and Impact Assessment

Subject Code: B150601T

[Time: 03:00 Hours]

[Max. Marks: 75]

Note: Attempt all the questions as per given instructions.

- I. Multiple Choice Questions (MCQs) [01×15=15]**
 - I** Which year was the Water Act passed?
 - a) 1981
 - b) 2000
 - c) 1974
 - d) 1986
 - II** Which law regulates the diversion of forest land for non-forest use?
 - a) EPA 1986
 - b) Biodiversity Act
 - c) Forest Conservation Act
 - d) Air Act 1981
 - III** The Wildlife Protection Act was amended in 2002 to strengthen:
 - a) Pollution control
 - b) Wildlife crime penalties
 - c) Forest clearance
 - d) Biodiversity awareness
 - IV** Which of the following organizations works on forest conservation?
 - a) UNHCR
 - b) WWF
 - c) WTO
 - d) IAEA
 - V** Which unit is used for measuring ecological footprint?
 - a) Hectares
 - b) Kilograms
 - c) Litres
 - d) Kilowatt
 - VI** Which of the following is not a major threat to biodiversity?
 - (a) Habitat destruction
 - (b) Climate change
 - (c) Conservation efforts
 - (d) Invasive species
 - VII** What is a carbon credit?
 - a) A discount on fuel
 - b) A permit to emit 1 tone of CO₂
 - c) A tax rebate
 - d) A reward for cutting trees
 - VIII** Which material is commonly used in eco-friendly packaging?
 - (a) Styrofoam
 - (b) Plastic
 - (c) Biodegradable paper
 - (d) Non-recyclable glass
 - IX** An environmental impact assessment (EIA) is done
 - (a) Before the project
 - (b) After the project
 - (c) During the project
 - (d) Any time in the life cycle of the project
 - X** Which of the ISO 14000 series of standards focuses on the evaluation of environmental performance?
 - (a) 14010
 - (b) 14020
 - (c) 14030
 - (d) 14031

- XI** Under the National Solar Mission, what is the targeted solar power generation capacity by the year 2022 (original target)?
 a) 10 GW b) 20 GW c) 40 GW d) 100 GW
- XII** Which of the following is **not** a typical phase in Life Cycle Assessment (LCA)?
 a) Inventory Analysis b) Impact Assessment
 c) Site Selection d) Goal and Scope Definition
- XIII** Which of the following is India's official ecolabeling scheme for environmentally friendly products?
 a) Energy Star b) EcoMark c) Green Seal d) Blue Angel
- XIV** . Which of the following is a quantitative method used in EIA?
 a) Checklists b) Ad-hoc method
 c) Cost-Benefit Analysis d) Delphi technique
- XV** Which EIA methodology uses **expert opinion and iterative feedback** for impact prediction?
 a) Network analysis b) Delphi technique
 c) Cost-effectiveness analysis d) Overlay mapping

2. Answer in long (any three) [10×3=30]

- I** Describe the objectives and major provisions of the Water Act, 1974.
- II** Explain Compare the roles of CPCB and SPCBs in environmental governance.
- III** Explain the eight missions under the National Action Plan on Climate Change.
- IV** Discuss ISO 14000 series and its relevance to industries.

3. Answer in short (any five) [6x5=30]

- I** What is the primary objective of the Mission on Strategic Knowledge for Climate Change??
- II** Why is public participation important in the EIA process?
- III** What is the purpose of eco-labeling in environmental conservation?
- IV** What is the main objective of the Air Pollution Act, 1981?
- V** What is the difference between EIA and environmental audit?
- VI** What is carbon trading?
- VII** How can women contribute to environmental conservation?

15/05/2025

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Paper Code: B150602T

B (SVSU:2024-25/R)

Enrollment No.

Program Name: B.Sc. Environmental Science

VI Semester /III Year Examination

Subject Code: B150602T

Subject Name: Environmental Priorities and Research Tools

[Time : 03:00 Hours]

[Max. Marks : 75]

Note : Attempt all the questions as per given instructions.

1. Multiple Choice Questions (MCQs)

[01×15=15]

I A centrifuge is used to:

- (a) Measure pH (b) Separate components based on density
(c) Identify toxic substances (d) Conduct chemical reactions

II Spectrophotometry is primarily used to measure:

- (a) Color intensity of a solution (b) Weight of a sample
(c) Temperature (d) Electrical conductivity

III Nephelometry is used to measure:

- (a) Turbidity of a liquid sample (b) pH levels
(c) Conductivity (d) Temperature.

IV The most cyclone-prone area in India is:

- (a) Western India (b) Eastern coastal regions
(c) Central India (d) Himalayan regions

V Desertification is caused by:

- (a) Deforestation (b) Overgrazing
(c) Climate change (d) All of the above

VI The primary function of the National Disaster Response Force (NDRF) is:

- (a) Law enforcement (b) Disaster mitigation, response, and rescue
(c) Conducting environmental studies (d) Promoting urbanization

VII Sustainable development focuses on:

- (a) Economic growth alone
(b) Environmental conservation along with development
(c) Industrial expansion (d) Population growth

VIII Urban planning includes:

- (a) Only transportation development
(b) Infrastructure, waste management, and housing development
(c) Agricultural advancements (d) None of the above

IX Namami Gange is a flagship program aimed at:

- (a) Reducing air pollution (b) River Ganga rejuvenation
(c) Afforestation (d) Wildlife conservation

- X** The International Solar Alliance was established by:
 (a) India and the United States (b) India and France
 (c) China and Russia (d) UK and Germany
- XI** The Silent Valley Movement was started to prevent the construction of a hydroelectric project in which state?
 (a) Karnataka (b) Kerala (c) Tamil Nadu (d) Andhra Pradesh
- XII** Standard deviation measures:
 (a) The central tendency of data (b) The spread of data around the mean
 (c) The relationship between two variables
 (d) The total number of data points
- XIII** The National Disaster Management Authority (NDMA) was established in:
 (a) 2001 (b) 2005 (c) 2010 (d) 2015
- XIV** Gravimetric analysis involves:
 (a) Measuring color intensity (b) Determining mass of an analyte
 (c) Conducting titration (d) Measuring volume
- XV** UV-Vis Spectroscopy is based on the absorption of:
 (a) Infrared light (b) Ultraviolet and visible light
 (c) X-rays (d) Gamma rays

2. Answer in long (any three)

[10×3=30]

- I** Discuss the functions and significance of the National Disaster Management Authority (NDMA) in India's disaster management framework.
- II** Examine the causes and consequences of human population explosion in India and suggest measures for sustainable population growth.
- III** Define sustainable development and discuss the major challenges in implementing sustainable development strategies in India.
- IV** Explain the role of NDRF (National Disaster Response Force) and SDRF (State Disaster Response Force) in disaster preparedness and management in India.

3. Answer in short (any five)

[6x5=30]

- I** Discuss the causes and consequences of floods in India.
- II** What is the relationship between the environment and human health?
- III** Discuss the positive and negative impacts of the Green Revolution in India.
- IV** How does health education contribute to better hygiene and disease prevention?
- V** Discuss the role of NDMA in disaster risk reduction.
- VI** Define desertification and its impact on biodiversity.
- VII** What do you by mean? Explain its importance with examples.