

M.Sc. ENVIRONMENTAL SCIENCE
Second Semester
ENVIRONMENTAL MANAGEMENT & SUSTAINABLE DEVELOPMENT
(MEV – 204)

Duration: 3Hrs.

Full Marks: 70

Part-A (Objective) =20
Part-B (Descriptive) =50

(PART-B: Descriptive)

Duration: 2 hrs. 40 mins.

Marks: 50

Answer any *four* from *Question no. 2 to 8*
Question no. 1 is compulsory.

1. Define Environmental Management. What is Ecomark? Write detailed process for ISO certification. (1+2+7=10)
2. Why Environmental Clearance is needed for any developmental project? Write a brief note on environmental management of Industries and Mines. (2+8=10)
3. Write short notes on: (5+5=10)
 - a) Ecological Risk assessment.
 - b) Risk management and Risk communication.
4. What are the sources and characteristics of Solid Wastes? Write in detail different methods for disposal and management of Solid Wastes. (2+2+6=10)
5. Write short notes on: (4+6=10)
 - a) Waste minimization technology.
 - b) Hazardous waste management and handling rules.
6. Write Ecosystem and social process of Rehabilitation for any two of the following: (5+5=10)
 - a) Degraded rural landscape
 - b) Unbalanced soil
 - c) Specialized habitats
 - d) Mining areas

7. What is Sustainable Development? What are the indicators of Sustainability? Write about Sustainable Management of Renewable Resources. (1.5+1.5+7=10)
8. What are the environmental priorities in India for sustainable development and challenges to meet sustainability? Write in short about availability of non-renewable resources in India. (3+4+3=10)

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Duration: 20 minutes

Marks – 20

(PART A - Objective Type)

I. Choose the correct answer:

1×20=20

1. Light and heavy manufacturing units are generator of:
a) Residential waste b) Industrial waste
c) Commercial waste d) Construction & demolition waste
2. For environmental audit process choose the correct process.
a) Planning, choosing audit team, inspecting site, analyzing results of audit, evaluating audit.
b) Choosing audit team, inspecting site, planning, analyzing results of audit, evaluating audit.
c) Planning, inspecting site, choosing audit team, analyzing results of audit, evaluating audit.
d) None of the above.
3. _____ is the industrial source of waste generator.
a) Renovation sites b) Waste treatment plants
c) Hospital d) Feedlots
4. "A set of processes and practices that enable an organization to reduce its environmental impacts and increase its operating efficiency" – can be a definition of:
a) Environmental management system b) Environmental audit
c) Environmental clearance d) None of the above
5. _____ is an example of waste generated from residential source.
a) Dirt b) Food wastes
c) Scrap materials d) Hazardous waste
6. Percent carbon concentration in organic food waste is (dry weight basis):
a) 48.0% b) 37.6% c) 44.0% d) 0.4%
7. HHRA stands for:
a) Hospitality Health Resource Association
b) Human Health Resource Association
c) Human Health Risk Assessment
d) Households Risk Assessment
8. Environmental auditing originated in US in:
a) 1970s b) 1960s c) 1980s d) 1990s

9. "The most common type of audit consisting of checks against environmental legislation and company policy" – is:
a) Corporate audit b) Issues audit
c) Site audit d) Compliance audit
10. Chapter II of Hazardous and Other Waste (Management and Transboundary Movement) Rules, 2016 is for:
a) Import and Export of Hazardous and Other Wastes.
b) Packing, Labeling and Transport of Hazardous and Other Wastes.
c) Procedures for Management of Hazardous and Other Wastes.
d) None of the above.
11. NBSSLUP stands for:
a) National Board for Soil Survey and Land Use Planning.
b) National Biological Soil Society and Land Use Planning.
c) National Bureau of Soil Survey and Land Use Planning.
d) None of the above.
12. There are _____ Chapters in Hazardous and Other Waste (Management and Transboundary Movement) Rules, 2016.
a) 6 b) 9 c) 7 d) 11
13. ISO stands for:
a) International Standard Organization
b) Indian Standard Organization
c) Indian Organization for Standardization
d) International Organization for Standardization
14. 'Chairman' of Ecomark (Environment Friendly Product Labeling) Committee is:
a) Secretary, Department of Environment and Forest
b) Secretary, Ministry of Industry
c) Secretary, Ministry of Agriculture
d) Chairman, Central Pollution Control Board
15. Total members of ISO till date:
a) 160 b) 163 c) 158 d) 200
16. Correct arrangement of different stages for ISO standards development process is:
a) Proposal, Preparatory, Committee, Enquiry, Approval, Publication.
b) Preparatory, Proposal, Committee, Enquiry, Approval, Publication.
c) Committee, Preparatory, Proposal, Enquiry, Approval, Publication.
d) None of the above.
17. Scheme of Labeling Environment Friendly Product, 'Ecomark' was started in the year:
a) 1989 b) 1991 c) 1995 d) 1980
18. Which of the following is not a renewable resource?
a) Air b) Geothermal Energy
c) Natural Gas d) Solar Energy

