REV-00 MEV/10/16

# 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.

- 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:
  - a) Ecological Risk assessment.
  - b) Risk management and Risk communication.
- 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:
  - 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

c) Specialized habitats

b) Unbalanced soild) Mining areas

(5+5=10)

(4+6=10)

- 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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2017/06

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

(PART A - Objective Type)

**Duration: 20 minutes** 

Marks – 20

### I. Choose the correct answer:

1×20=20

- 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)

d) 1990s

9. "The most common type of audit consisting of checks against environmental legislation and company policy" – is:
 a) Corporate audit

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:
  - nus Ior:
  - a) International Standard Organization
  - b) Indian Standard Organizationc) 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

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d) Chairman, Central Pollution Control Board

15. Total members of ISO till date:

a) 1	160	ł	)	
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16.Correct arrangement of different stages for ISO standards development process is:

d) 200

c) 158

- 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) 1989b) 1991c) 1995d) 1980

18. Which of the following is not a renewable resource?
a) Air
b) Geothermal Energy
c) Natural Gas
d) Solar Energy

19.GDP stands for:

a) Gross Decorative Products c) Gross Degenerative Process

b) Gross Domestic Products d) Growth Diurnal Process

20.For environmental clearance process, "Identifying the location of proposed unit by the entrepreneur", is done in:

a) Screening stage

c) Evaluation stage

b) Scoping staged) None of the above

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SESSION: 2016-17			
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NAME OF THE PAPER:			
SEMESTER			
Instructions to Candidates	For Objective Type Questions		Session: 2016-17
1. This answer booklet has 4 pages. Please check before			
writing whether it is complete or in good condition.	Page No.	Marks	Course
2. Do not write your name anywhere in the answer booklet.	And		Roll No
3. Write legibly on both sides of the paper			Enrollment No
4. You may use some space for any rough notes or calculation	ALC ALC		Semester
on the answer booklet if you need. These rough notes,			
calculations must be scored out before submitting the answer			Name of the Paper
booklet.			
5. Do not bring any book or loose paper in the examination			
hall.	Total		Paper Code
6. Do not tear any page from the answer booklet.	For Descriptive Type Questions		
7. Do not write anything on the question paper or blotting	Question No. Marks		
paper or any pieces of paper while you are in the examination			
hall.		a contraction	
8. Any act of indiscipline or misbehavior in the examination hall			
will result in your expulsion.			
9. No examinee is allowed to leave the examination hall until			
30 minutes lapse after the commencement of the examination.			
10. Additional answer sheet will be supplied after the main			
answer booklet is completed.			
	Total	10.040	
	Grand Total	- 63- D	

Scrutinizer's Signature