

**MA GEOGRAPHY**  
**First Semester (Repeat)**  
**ENVIRONMENT & ECOLOGY**  
**(MGE - 03)**

**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. Narrate the relationships between population, resources and environment with suitable example. (10)
2. Define ecology and ecosystem. Describe the components of ecosystem. (3+3+4=10)
3. What is desertification? Mention the causes and remedies of desertification. (2+4+4=10)
4. What are the salient features of coastal ecosystem? Why coastal ecosystem is under threat? How mangroves play an important role in conserving coastal ecosystem? (2+4+4=10)
5. What do you mean by biodiversity? Describe the importance of conservation of biodiversity. (4+6=10)
6. Discuss the concept of bio-geochemical cycles. (10)
7. What do you mean by environmental problems? Describe the remedial measures of environmental problems. (5+5=10)
8. Write short notes on: (*any two*) (5×2=10)
  - A. Food chain
  - B. Biogeographic region
  - C. Modifiers of ecosystem
  - D. Floods

**MA GEOGRAPHY**  
**First Semester (Repeat)**  
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**Duration: 20 minutes**

**Marks – 20**

**(PART A - Objective Type)**

**I. Tick (✓) the correct answer:**

**1×20=20**

1. Which one of the following is a site for *ex situ* method of biodiversity conservation?
  - A. Biosphere reserve
  - B. Botanical garden
  - C. National park
  - D. Wildlife sanctuary
  
2. Who first used the term 'biodiversity'?
  - A. Ramond F. Dasmann
  - B. Thomas Loverjoy
  - C. E. O. Wilson
  - D. W. G. Rosen
  
3. Who first used the term 'Hotspot'?
  - A. Ramond F. Dasmann
  - B. A. G. Taylor
  - C. J. T. Hack
  - D. N. Mayor
  
4. **Assertion (A):** Crop rotation helps in pest control.  
**Reason (R):** Crop rotation helps maintaining soil fertility.
  - A. Both **A** and **R** are true and **R** explains **A**
  - B. Both **A** and **R** are true but **R** does not explain **A**
  - C. **A** is true but **R** is false
  - D. **A** is false but **R** is true
  
5. "Earth has everything to meet human needs but not its greed" who said this?
  - A. P. J. Abdul Kalam
  - B. Mahatma Gandhi
  - C. Ackerman
  - D. George Washington
  
6. Biosphere is a right composition of:
  - A. Lithosphere, atmosphere and hydrosphere
  - B. Lithosphere, atmosphere and troposphere
  - C. Lithosphere, stratosphere and hydrosphere
  - D. Ionosphere, atmosphere and hydrosphere

7. Which of the above is/are the emission/emissions from coal combustion at thermal power plants?
- A. 1 only
  - B. 2 and 3
  - C. 1 and 3
  - D. 1, 2 and 3

8. Which of the following is a part of the biogeochemical cycle?
1. soils          2. plants          3. atmosphere          4. Oceans

Select the correct answer using the codes given below:

- a) 1, 2 and 3 only
  - b) 1, 3 and 4 only
  - c) 2, 3 and 4 only
  - d) 1, 2, 3 and 4
9. With reference to forest ecosystems, consider the following statements:
- 1. The number pyramid is neither inverted nor upward.
  - 2. The biomass pyramid is inverted.
- Which of the statements given above is/are correct?
- a) 1 only
  - b) 2 only
  - c) Both 1 and 2
  - d) Neither 1 nor 2
10. Which of the following environmental disaster has highest killing?
- A. Minamata mercury poisoning
  - B. Bhopal gas tragedy
  - C. Chernobyl nuclear disaster
  - D. Tsunami, 2004

11. The aspects which require monitoring of sustainability include:
- 1. Climate change          2. Biodiversity          3. Disposal of hazardous and toxic wastes
  - 4. Disposal of pollution generating industries          5. Food and ecological security

Select correct code from the following:

- A. 1, 2 and 3          B. 3 and 4          C. 2 and 5          D. All the above
12. Algal bloom results in:
- A. Global Warming          B. Salination
  - C. Eutrophication          D. Biomagnification

13. Assertion (A): Chlorofluorocarbons deplete ozone.  
Reason (R): These compounds contain Chlorine, Bromine and Fluorine.
- A. Both (A) and (R) are true and (R) is the correct explanation of (A)
  - B. Both (A) and (R) are true but (R) is not the correct explanation of (A)
  - C. (A) is true but (R) is false
  - D. (A) is false but (R) is true

14. Which one of the following is the most permanent attribute of soils?  
A. Colour                                      B. Consistency  
C. Structure                                    D. Texture
15. Plant roots and soil micro-organism are rare in the:  
A. A horizon                                  B. B horizon  
C. C horizon                                  D. O horizon
16. UNFCCC stands for:  
A. United Nations Framework Convention on Climate Change  
B. United Nations Framework Convention on Climatic Condition  
C. United Nations Foundation Conservation on Change Climate  
D. United Nations Framework Conservation on Climate Change
17. IPCC stands for:  
A. International governmental Panel for Climate Change  
B. Inter-governmental Panel for Climate Change  
C. Indian governmental Panel for Climate Change  
D. None of these
18. SCOPE stands for:  
A. Scientific Committee on Pollution of the Environment  
B. Society and Committee on Problems of the Environment  
C. Scientific Committee on Problems of the Environment  
D. None of these
19. UNEP stands for:  
A. United Nations Environment Programme  
B. United Nations Ecology Programme  
C. United Nations Environment Problem  
D. United Nations Economic Programme
20. NAPCC stands for:  
A. National Activity Plan on Climate Conservation  
B. National Action Programme on Climate Conservation  
C. National Action Plan on Climate Conservation  
D. National Action Plan on Climate Change

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