

MA / M. Sc. GEOGRAPHY
FIRST SEMESTER
ENVIRONMENT AND ECOLOGY
MGE - 103

Duration: 3 Hrs.

Marks: 70

Part : A (Objective) = 20

Part : B (Descriptive) = 50

[PART-B : Descriptive]

Duration: 2 Hrs. 40 Mins.

Marks: 50

[Answer question no. One (1) & any four (4) from the rest]

1. "Humanization of nature and naturalization of human"- elaborate the statement in terms of Possibilism and Determinism. Describe the importance of Neo-determinism in relation to environmental issues in 21st century. 4+4+2
=10
2. "Soil is an important component of environment"-why? Describe the factors which are responsible for soil formation. 10
3. How can ecological knowledge be incorporated more intimately into industrial lifecycle analysis, recycling and water re-use? 10
4. In which part of the world we find three sections of the vegetation and why? Discuss ecology of such vegetation zones. 4+6=10
5. What are the major global environmental issues of the 21st century? Discuss one issue in detail with suitable example. 5+5=10
6. What do you understand by environmental management? Describe the different ways of management. 4+6=10
7. What is Biodiversity? Why biodiversity regions are under threat? Discuss briefly about the conservational strategies of Biodiversity? 2+3+5
=10
8. From where does water that is on the earth come? Describe the hydrological cycle in response to global climate change. 2+8=10

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[PART-A : Objective]

Choose the correct answer from the following :

1×20=20

1. The science of study of soils is called-
 - a. Pedagogy
 - b. Pedology
 - c. Geology
 - d. Morphology
2. The term soil conservation implies-
 - a. Using soil only for farming
 - b. Using soil only for grazing
 - c. Using soil only for horticulture and forestry
 - d. None of these
3. Which one among the following covers the highest percentage of forest area in the world?
 - a. Temperate Coniferous forests
 - b. Temperate Deciduous forest
 - c. Tropical Monsoon forests
 - d. Tropical Rain forests
4. The most important reason for decrease in biodiversity is
 - a. Habitat pollution
 - b. Introduction of exotic species
 - c. Over exploitation
 - d. Habitat destruction
5. The functioning of an ecosystem involves-
 - a. Flow of energy and circulation of nutrients
 - b. An increasing simplicity of relations
 - c. Increasing animal populations
 - d. Increasing number of trees and bushes etc.
6. Who form the first trophic level in any ecosystem?
 - a. Herbivores
 - b. Plants
 - c. Carnivores
 - d. Omnivores
7. A balanced ecosystem is one in which the-
 - a. Number of organizations at all levels is equal
 - b. Amount of energy synthesized and utilized is equal
 - c. Amount of biomass at all trophic level is equal
 - d. Organisms are interdependent on each other
8. Which one is supposed to be the most stable environment?
 - a. Tropical rainforest
 - b. Temperate grasslands
 - c. Hilly regions
 - d. Deep sea regions
9. Which of the following is NOT a possible protection against deforestation?
 - a. Reduce the consumption of forest and related resources
 - b. Avoid products of companies involve in deforestation
 - c. Privatization of forest land
 - d. Environmental education
10. Montreal Protocol was concerned with
 - a. Control of ozone depletion
 - b. Control of global warming
 - c. Control of global warming and ozone
 - d. Control of biodiversity and global depletion warming
11. The most harmful environmental pollution from nuclear reactor is-
 - a. radioactivity
 - b. particulate formation
 - c. thermal pollution
 - d. noise pollution
12. Which of the following is a major cause for land degradation in our country?
 - a. Soil erosion
 - b. Pollution of soil
 - c. Water logging
 - d. None of the above
13. Which one of the following is a site for *in situ* method of biodiversity conservation?
 - a. Biosphere reserve
 - b. National park
 - c. Wildlife sanctuary
 - d. All of these
14. Preservative approach of environmental management means-
 - a. Man should not disturb natural resources and should adjust according to it
 - b. Man should not overexploit the natural resources
 - c. Man should conserve the natural resources
 - d. Proper utilization and conservation of resources

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[PART (A) : OBJECTIVE]

Duration : 20 Minutes

Serial no. of the
main Answer sheet

- 15. Xerophytes are-
 - a. Plants that grow in areas of high rainfall
 - b. Plants which can withstand high degree of salinity
 - c. Plants which grow in areas of moderate moisture supply
 - d. Plants which can withstand extreme aridity.

- 16. Which of the following is associated with Transpiration?
 - a. Evaporation from the leaves of trees
 - b. Evaporation from the water bodies
 - c. Soil infiltration
 - d. Runoff from the water bodies

- 17. IUCN (The International Union for Conservation of Nature and Natural Resources) headquarters is at
 - a. Morges-Switzerland
 - b. Paris-France
 - c. Vienna-Austria
 - d. New York-USA

- 18. Wildlife Week is celebrated on
 - a. 1st October to 7th October
 - b. 15th October to 21st October
 - c. 1st June to 7th June
 - d. 15th June to 21st June

- 19. 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

- 20. 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

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Course :

Semester : Roll No :

Enrollment No : Course code :

Course Title :

Session : 2017-18 Date :

Instructions / Guidelines

- The paper contains twenty (20) / ten (10) questions.
- Students shall tick (✓) the correct answer.
- No marks shall be given for overwrite / erasing.
- Students have to submit the Objective Part (Part-A) to the invigilator just after completion of the allotted time from the starting of examination.

Full Marks	Marks Obtained
20	

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Scrutinizer's Signature

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Examiner's Signature

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Invigilator's Signature