

MA/ M.Sc. GEOGRAPHY
FIRST SEMESTER
INTRODUCTION TO ENVIRONMENT & ECOLOGY
MGE – 104 [SPECIAL REPEAT]
[USE OMR FOR OBJECTIVE PART]

**SET
A**

Duration: 3 hrs.

Full Marks: 70

Time: 30 min.

(Objective)

Marks: 20

Choose the correct answer from the following:

1X20=20

1. The term 'Ecology' is derived from-
 - a. Greek
 - b. Roman
 - c. French
 - d. Arabic
2. Biosphere is defined as
 - a. Part of the earth water and atmosphere which inhabits living organism
 - b. Part of the soil where animals and plants are found
 - c. Atmosphere in which life exists
 - d. None of the above
3. Process of evapo-transpiration and precipitation is called
 - a. Carbon cycle
 - b. Nitrogen cycle
 - c. Hydrological cycle
 - d. All the above
4. Ecosystem is smallest unit of-
 - a. Ionosphere
 - b. Biosphere
 - c. Lithosphere
 - d. Mesosphere
5. The set of ecosystems is called a-
 - a. Climate
 - b. Subsystem
 - c. Structure
 - d. Biome
6. Desert are mostly found in which region
 - a. Tropical
 - b. Temperate
 - c. Arid and Semi-arid
 - d. Coastal
7. Which of the following are forest ecosystem goods
 - a. Non-timber products
 - b. Pollination
 - c. Nutrient cycling
 - d. All of the above
8. Which of the following is/are examples of coastal ecosystem?
 - a. Mangrove
 - b. Coral reef
 - c. Both a and b
 - d. Neither a or b
9. Which of the following statement is true for coral reef?
 - a. Rich diversity
 - b. Fragile or sensitive
 - c. Build of calcium carbonate
 - d. All of the above

10. Which of the following reef is formed in deep ocean?
- Barrier reef
 - Atoll
 - Fringing
 - None
11. Which of the following industries plays a major role in polluting air and increasing air pollution?
- Brick manufacturing industries
 - Manufacture of gases industries
 - Electrical appliances and electrical goods industries
 - All of the above
12. Which of the following are the primary causes of water pollution?
- Plants
 - Animals
 - Human activities
 - None of these
13. Which of the following is mainly responsible for the causes of water pollution?
- Afforestation
 - Oil refineries
 - Paper factories
 - Both b and c
14. Which one of the following ecosystems has the highest primary production?
- Agricultural land
 - Fresh water swamps and marshes
 - Mid-latitude grasslands
 - Taiga forests
15. Which one of the following elements is lowest in the Global living matter?
- Carbon
 - hydrogen
 - Nitrogen
 - Oxygen
16. Transformation and transfer of food energy in the ecosystem from one group of organisms to the other group through a series of steps or levels is called _____
- Food chain
 - Food web
 - Food energy
 - Trophic energy
17. Consider the following statements and select the correct answer using the code given below:
- Phosphorus is abundant in nature
 - Phosphorus is an excretory product
 - Phosphorus cycle can be disrupted by the use of chemical fertilizers
 - Phosphates in the soil are taken into the plant for protection.
- Code:*
- 1,2 and 3 are correct
 - 1,3 and 4 are correct
 - 2,3 and 4 are correct
 - 1,2,3 and 4 are correct
18. A biome is characterized with continental climate, high annual range of temperature and water surplus throughout the year. These are the characteristics of which one of the following biomes:
- Boreal biome
 - Equatorial biome
 - Monsoon biome
 - Savanna biome

19. A plant which lives on decaying organic matter is _____
- a. Parasite
 - b. Saprophyte
 - c. Palm
 - d. Zoophyte
20. The Palaearctic realm is the largest biogeographic realm. It includes the region of _____
- a. Eurasian, North Africa and Arabian Peninsula
 - b. North America, South Africa and Australia
 - c. Australia, North Africa and Eurasian
 - d. North America, North Africa and Eurasian

(Descriptive)

Time : 2 hrs. 30 mins.

Marks : 50

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

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| 1. What is biosphere? Explain the different components of biosphere? | 2+8=10 |
| 2. Describe the relationships of Population, Resources and Environment | 10 |
| 3. What is desertification? Explain the causes and consequences of desertification? | 2+4+4
=10 |
| 4. Write short notes on the following:
a. Coral reef
b. Mangrove ecosystem | 5+5=10 |
| 5. Describe the emerging environmental issues with suitable example. | 10 |
| 6. Write short notes on the following:
a. Biodiversity
b. Causes and remedies of water pollution | 5+5=10 |
| 7. Discuss the significance of biogeography as a sub-discipline of geography in the context of present-day man-environment relationship. | 10 |
| 8. Write short notes on the following:
a. Energy flow in ecosystem
b. Oriental Zoo-geographical Realm | 5+5=10 |

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