

MA/M.Sc. GEOGRAPHY  
THIRD SEMESTER  
HAZARDS & DISASTER MANAGEMENT: BASIC CONCEPTS  
MGE – 304B

**SET  
B**

[USE OMR SHEET FOR OBJECTIVE PART]

Duration : 3 hrs.

Full Marks : 70

( Objective )

Time: 30 min.

Marks: 20

Choose the correct answer from the following:

1X20=20

1. Which of the following is not a geologic hazard?
  - a. Earthquake
  - b. Drought
  - c. Tsunami
  - d. None of the above
2. The word 'hazard' owes its origin to the word 'az-zhar' in old ----
  - a. Greek
  - b. Latin
  - c. French
  - d. Arabic
3. Vulnerabilities can be categorized into Physical vulnerability and
  - a. Social vulnerability
  - b. Economic vulnerability
  - c. Political vulnerability
  - d. Socio-economic vulnerability
4. The level of risk depends upon
  - a. 2 factors
  - b. 3 factors
  - c. 4 factors
  - d. Many factors
5. ---- per cent of the total cultivable area is vulnerable to drought
  - a. 59
  - b. 70
  - c. 80
  - d. 90
6. A flood can vary in
  - a. Size
  - b. Speed of water flow
  - c. Duration
  - d. All of above
7. Earthquakes with magnitudes greater than ---- in Richer scale are strong enough to be recorded by a seismograph anywhere in the world
  - a. 1
  - b. 4.5
  - c. 5.5
  - d. 6
8. What is a landslide?
  - a. a shaking of Earth
  - b. soil, rock, and debris sliding down a slope
  - c. an opening in Earth similar to a sinkhole
  - d. an eruption of lava
9. Chernobyl Disaster was associated with
  - a. Chemical accident
  - b. Nuclear accident
  - c. Road accident
  - d. Air accident

10. Approximately what percentage of earthquake occur at plate boundaries?
- 25%
  - 50%
  - 75%
  - 90%
11. Extreme temperature is an example of ----- hazard
- chemical
  - mechanical
  - physical
  - instrumental
12. The amount of ground displacement in an earthquake is
- Epicenter
  - dip
  - slip
  - None
13. Toxic chemicals can enter human body through ---- routes
- 2
  - 3
  - 4
  - many
14. Which of these is/are flood prevention and mitigation strategy?
- Construction of flood protection embankments
  - Depopulating the flood plains
  - Deforestation
  - Decongesting river channels
- Select the correct option using the codes given below
- 1 & 2 only
  - 1, 2 & 3 only
  - 1, 2 & 4 only
  - 1, 2, 3 & 4
15. What is tsunami?
- A large storm with very high-speed winds
  - A tropical cyclone that occurs in the Pacific Ocean
  - A large and powerful ocean wave
  - All of above
16. In northern hemisphere, the wind of the tropical cyclone blows in
- Anticlockwise direction
  - Clock wise direction
  - Straight
  - In any direction
17. Major tsunamis are generated by earthquakes along
- Divergent margins
  - Convergent margins
  - Transform margin
  - None of the above
18. How can dams cause drought?
- By reducing rainfall
  - By reducing water level downstream
  - By flooding
  - None of above
19. What is Ring of Fire?
- Belt of volcanoes in the Circum Pacific region
  - Belt of volcanoes in the mid-continental region
  - Belt of volcanoes in the mid-Atlantic region
  - None of the above
20. Who heads the National Disaster Management Authority in India ?
- The President
  - The Prime Minister
  - The Chief Secretary
  - None of the above

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**( Descriptive )**

Time : 2 hrs. 30 mins.

Marks : 50

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

1. Discuss the terms Hazard, Vulnerability, Capacity, Risk and Disaster. What are the inter-relations? 6+4=10
2. What do you mean by occupational hazard? Discuss briefly different types of occupational hazards. 2+8=10
3. What is drought? What are the causes and consequences of different types of droughts? 2+8=10
4. Discuss hazard vulnerability of Indian subcontinent. 10
5. What is flood? Explain advantages and disadvantages of different flood mitigation measures in India 2+8=10
6. Write short notes on (*any two*) 5×2=10
  - a. Bhopal Gas Tragedy
  - b. Man-made disasters
  - c. Earthquake in North East India
7. Discuss the individual and workplace factors which are responsible for occupational hazards. 10
8. Write short notes on (*any two*) 5×2=10
  - a. Cyclones
  - b. Challenges of big dams in North East India
  - c. Disaster management cycle

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