

**M.Sc. ENVIRONMENTAL SCIENCE  
FOURTH SEMESTER  
HAZARDS & DISASTER MANAGEMENT: ISSUES AND POLICIES  
MEV-403B**

Duration : 3 hrs.

Full Marks: 70

**[ PART-A: Objective ]**

Time : 20 min.

Marks : 20

*Choose the correct answer from the following:*

1X20=20

1. 59% of India's landmass is vulnerable to
  - a. Flood
  - b. Drought
  - c. Earthquake
  - d. All of above
2. Nonstructural elements can be classified in the following three categories
  - a. architectural elements, building; and basic installations
  - b. architectural elements, equipment and furnishings; and basic installations
  - c. architectural elements, building; and housing installations
  - d. None of these
3. ----- represents long-term development assistance, which could help people in the affected areas to rebuild their lives and meet their present and future needs.
  - a. Rehabilitation
  - b. Reconstruction
  - c. Capacity building
  - d. None of above
4. The term ----- is used to embrace both the rehabilitation and reconstruction activities.
  - a. Mitigation
  - b. Recovery
  - c. Preparedness
  - d. All of above
5. Which is not a cause of flood in North East India?
  - a. Heavy rainfall
  - b. Unique physiography
  - c. North east monsoon
  - d. South west monsoon
6. Which is a correct sequence in disaster management?
  - a. Preparedness, Response, Mitigation
  - b. Mitigation, Response, Preparedness
  - c. Preparedness, Rehabilitation, Response
  - d. All of above
7. International Decade for Natural Disaster Reduction dedicated to reducing-
  - a. Loss of life, property damage, social and economic disruption
  - b. Loss of life, property damage, social and religious disruption
  - c. Loss of life, property enhance, social and economic disruption
  - d. None of these
8. During an earthquake event, attention is given on location of the
  - a. Focus
  - b. Epicenter
  - c. Eye
  - d. All of above

9. The earthquake of magnitude 8 in Richter scale is --- times stronger than an earthquake of 7 in Richter scale (Fill in the blank)
- a. 2  
b. 10  
c. 100  
d. 56
10. 1950 Earthquake occurred on
- a. 1 August  
b. 10 August  
c. 15 August  
d. None of above
11. Major damage was occurred in ..... of Assam during 1950 earthquake
- a. Tezpur  
b. Chandubi  
c. Sadiya  
d. Dibrugarh
12. Cyclone is a region of ---atmospheric pressure surrounded by ---atmospheric pressure resulting in swirling atmospheric disturbance accompanied by powerful winds.
- a. Low, high  
b. High, low  
c. Clock wise, anticlockwise  
d. None of above
13. Hurricane is a cyclone prevalent in
- a. North Atlantic ocean  
b. Northwest Pacific Ocean  
c. South Pacific Ocean  
d. All of Above
14. Which of the following travel at high speed in an earthquake?
- a. P wave  
b. S wave  
c. Body wave  
d. All of above have equal speed
15. Chandubi lake in Assam was formed as a result of
- a. 1950 earthquake  
b. 1930 earthquake  
c. 1897 earthquake  
d. 1526 earthquake
16. About two third of the cyclones in the Indian coastline occur in the ----
- a. Arabian sea  
b. Indian ocean  
c. Bay of Bengal  
d. All of above
17. Union Carbide India Limited factory was built in India and the factory was responsible for a major accident in the state of -----
- a. Madhya Pradesh  
b. Bhopal  
c. Orissa  
d. Maharashtra
18. Which of the following accounts for maximum unnatural deaths in India?
- a. Natural causes  
b. Fire  
c. Road accidents  
d. Railway accidents
19. Which is/are the factors that trigger landslides in India?
- a. Deforestation  
b. Earthquake  
c. Shifting cultivation  
d. All of above

20. Chernobyl disaster was a  
a. Nuclear accident  
c. Earthquake

b. Tsunami  
d. All of above

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**( PART-B : Descriptive )**

Time: 2 HRS 40 MINS

Marks : 50

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

1. Discuss about hazard vulnerability in India. Mention a few major hazard events in India. 6+4=10
2. Write about recovery and reconstruction of physical and social infrastructure in disaster management. 10
3. Discuss disaster prevention through sustainable development. 10
4. Write short notes on : 5+5=10
  - I) Importance of medical aid therapy and counseling in disaster situation
  - II) Landslides in India
5. Describe the role of community participation in disaster management. 10
6. What are the causes of floods in North East India? Write about different flood mitigation measures. 10
7. Describe the role of micro finance in disaster management. 10
8. Discuss causes and consequences of 1897 and 1950 earthquakes in North East India. 10

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