

GANPAT UNIVERSITY

B. Tech Semester – I (ME, MC, Civil) Exam – December 2010

CI 103: Environmental Studies & Disaster Management

Duration: 3 Hour

Total Marks: 70

Instructions:

1. All questions are compulsory.
2. Figures to right indicate full marks.

SECTION - I

Q:1 Choose an appropriate option to answer the following questions

15

- 1 Form which language is the term 'Disaster' derived?
(a) Latin (b) Italian (c) French (d) Japanese
- 2 Which one of the following is not a geological hazard?
(a) Earthquake (b) Tsunami (c) Landslide (d) Draught
- 3 Which one of the following is not responsible for creating pressure leading to Disaster?
(a) Environmental Degradation (b) Urbanization
(c) Ideology of human beings (d) Population
- 4 Deforestation is.....
(a) Geological hazard (b) Environmental hazard (c) Climatic hazard (d) Biological hazard
- 5 Where do most earthquakes occur?
(a) On the equator (b) Along the boundaries of earth's crustal plates
(c) On the continent of the Antarctica (d) None of the above
- 6 The amount of energy released by an earthquake is called.....
(a) Power (b) Magnitude (c) Sensitivity (d) Intensity
- 7 Man made hazards are due to...
(a) Human negligence (b) Human laziness (c) Human greed (d) Human ambition
- 8 Which one of the below mentioned is the least severe form of drought?
(a) Meteorological drought (b) Socio-Economic Drought
(c) Hydrological drought (d) Agricultural drought
- 9 One of the following is not a vulnerability factor to drought.
(a) Low soil moisture holding capacity (b) Absence of irrigation facilities
(c) Over grazing (d) Dangerous Location
- 10 In the North Atlantic Ocean and the South Pacific Ocean, Cyclones are known as...
(a) Hurricanes (b) Tornado (c) Willie-Willie (d) Tropical Cyclone
- 11 IMD stands for
(a) Indian Monitory Department (b) International Medication Division
(c) Indian Indian Military Division (d) The India Meteorological Department
- 12 By which name Cyclones are commonly referred to in South America?
(a) Typhoon (b) Tornado (c) Cyclonic Storm (d) Hurricane
- 13 What is the most important thing to do in case of a flash flood?
(a) Get to higher ground (b) Gather supplies for an evacuation (c) Shout (d) Dive into a ditch

- 14 Tsunami is in fact a Tidal Wave.
 (a) True (b) False (c) Can't say (d) Partially True
- 15 It is a popular false belief that Tsunami is a single giant wave
 (a) True (b) False (c) Can't Say (d) Partially True
- Q:2 A **Define the following Terms (Any Five)** 10
 1. Hazard 2. Natural Disaster 3. Disaster Management Cycle 4. Terrorism
 5. Modified Mercalli Scale 6. Preparedness 7. Draught
- B **Answer the following Questions in short. (Any Ten)** 10
- 1 What is Man-made Disaster?
 - 2 What is 'the Eye' of a Cyclone?
 - 3 What are the necessary steps to be taken to avoid dangerous epidemics after a flood disaster?
 - 4 Define Tsunami
 - 5 Name two basins in India that are frequently affected by flood.
 - 6 Enlist the characteristics of a cyclone.
 - 7 What will you do in case of your clothes catch on fire?
 - 8 What are the general targets of riots?
 - 9 What are the two phases of recovery in the post disaster period?
 - 10 What is the purpose of the plan in disaster preparedness?
 - 11 What is the second stage of disaster relief?
 - 12 Enlist any two Emotional Stress Responses due to disaster.

SECTION – II

- Q:3 **Answer the following questions (Any Two)** 10
- A Explain Carbon Cycle with the help of a neat and labeled diagram?
 - B What do you mean by Environmental Degradation?
 - C What are ecological pyramids and food webs?
- Q:4 **Answer following question(Any Two)** 10
- A What are components of environment?
 - B Explain forest ecosystem with the help of labeled diagram?
 - C What are the impacts of technology on environment?
- Q:5 **Answer following question(Any Three)** 15
- A What is pollution? Explain water pollution.
 - B What is the Ozone Layer & what are the effects and causes of Ozone Depletion?
 - C What is Global Warming? Describe the causes and effect of Global Warming?
 - D What is Noise Pollution? Describe the effects on Humans?
 - E What is Green house Effect? How to control it?