

**GANPAT UNIVERSITY****B.Tech. Semester- I (ME/MC/EE/CIVIL) ENGINEERING****Regular Examination – November / December: 2012****CI-103: Environmental Studies and Disaster Management****Max.Time: 3 Hours****Max. Marks: 70**

- Instructions: -**
- (1) Answer to the two sections must be written in **separate** answer books.
  - (2) Figures to the **right** indicate **full** marks.
  - (3) Assume suitable data if required.

**Section - I****Q-1 Attempt the Following.**

- (A) Define the following terms: 6  
Environment, Ecology, Lithosphere, Autecology, Synecology, Ecosystem
- (B) Write a short note on Environmental Degradation. 6

**OR****Q-1 Attempt the Following.**

- (A) Write a short note on: - 1. Hydrosphere 6  
2. Biosphere.
- (B) Explain Structure of Atmosphere in detail. 6

**Q-2 Attempt the Following.**

- (A) Explain the importance of man and environment relationship. 6
- (B) Explain:- Energy Flow in ecosystem 5

**OR****Q-2 Attempt the Following.**

- (A) Explain Desert Ecosystem. 6
- (B) Explain Pyramid of Energy 5

**Q-3 Attempt the following:**

- (A) Draw and Explain Hydrological Cycle. 12
- (B) Draw and Explain Oxygen Cycle.

**Section - II****Q-4 Attempt the following.**

- (A) Describe in detail ozone layer depletion process. 4
- (B) Enlist classification of water pollutants and explain any two in detail. 4
- (C) Describe sources of air pollutants and explain any one classification in detail. 4

**OR**

- Q-4 Attempt the following.**
- (A) Explain environmental impacts of mineral extraction. 6
- (B) Describe the effects of noise pollution on humans and animals. 4
- (C) Define terrorism and war. 2
- Q-5 Attempt the following.**
- (A) Explain conservation and exhaustion of resources. 4
- (B) Enlist applications of solar energy and explain any two in detail. 5
- (C) Define cyclone and utility failure. 2

OR

- Q-5 Attempt the following.**
- (A) Describe adverse effects of drought. 2
- (B) Define riot and demonstration. 2
- (C) Describe three ways to minimize radiation exposure. 3
- (D) Define 4
1. Tsunami
  2. Relief
  3. Mitigation
  4. Heat exhaustion
- Q-6 Attempt the following.**
- (A) Answer the following multiple choice questions: 6
1. Epicenter is the point on earth's surface vertically above
    - a) Fault
    - b) Fold
    - c) Hypocenter
    - d) Seismic wave
  2. The type of movement where tectonic plates pull away from each other
    - a) Transformational
    - b) Divergent
    - c) Convergent
    - d) Rupture
  3. The condition where body temperature rises very high causing brain damage and may result death
    - a) Paralysis
    - b) Heat stroke
    - c) Heat exhaustion
    - d) Jaundice
  4. Rainfall overwhelming drainage capacity of urban areas causing flooding is called
    - a) Flash floods
    - b) Riverine floods
    - c) Debris flow
    - d) Urban floods
  5. Slow, steady down slope movement of soil or rock often indicated by bent tree is called
    - a) Creep
    - b) Mudflow
    - c) Landslide
    - d) Avalanche

6. Fires involving electrical equipment are classified under which class?
- Class A
  - Class B
  - Class C
  - Class D

(B) Answer in one word.

- The emerging pathogens that could be engineered for mass dissemination in future are classified under which category?
- Where and what was the name of major nuclear accident taken place?
- Name the toxic gas leaked during Bhopal gas tragedy.
- Where the largest wind farm located in our country and what is its capacity?
- Which renewable energy has explosion hazard and difficult to store and transport?
- Nuclear energy produced by splitting atom's nucleus is called \_\_\_\_\_

“END OF PAPER”