

## GANPAT UNIVERSITY

B. Tech. Semester 1<sup>st</sup> Sem (ME/MC/EE/CIVIL)

Regular Examination – Nov/Dec : 2013

2CI- 103: Environmental Studies and Disaster Management

Time: 3 Hours

Total 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

- 1 (A) Explain Impacts of technology on Environment. (8)  
 (B) Differentiate Biotic and Abiotic components of Environment. (4)
- OR
- 1 (A) Write a short note on following: (6)  
 A) Lithosphere, B) Hydrosphere.  
 (B) Enlist objective of environment education system and explain principal of environment education system. (6)
- 2 (A) Draw and explain Sulfur cycle. (5)  
 (B) Draw and explain Oxygen cycle. (6)
- OR
- 2 (A) Draw and explain food chain. (6)  
 (B) Explain Energy flow model. (5)
- 3 **Attempt the following questions:** (12)  
 (A) Write a short note on Desert ecosystem.  
 (B) Discuss Producers and Consumers.  
 (C) Write a short note on Structure of Atmosphere.

## Section – II

- 4 (A) Describe briefly different sources of noise pollution. (4)  
 (B) Define: (a) Fault (b) Urban Flooding (c) Global Warming (d) Hypocenter (4)  
 (C) Explain any two environmental impacts caused due to mineral extraction. (4)
- OR
- 4 (A) Define (a) Mitigation (b) Preparedness (c) Relief (d) Recovery (4)  
 (B) Write a short note on Tidal energy. (4)  
 (C) Discuss terrorism and riots. (4)
- OR
- 5 (A) Define (a) Creep (b) Cyclone (c) Landslide (d) Sandstorm (4)  
 (B) Discuss transportation accidents and nuclear power accidents (4)  
 (C) Describe the process of Eutrophication. (3)
- OR
- 5 (A) What are the effects of carbon monoxide and particulate matter in air on human health? (4)

- (B) Define (a) Tsunami (b) Heat cramps (c) Drought (d) Heatstroke  
(C) Write a short note on Geothermal energy.

6 (A) Answer the following multiple choice questions:

(12)

- 1 Fires involving combustible metals are extinguished using  
(a) Carbon dioxide (b) Special dry powder (c) Dry chemical (d) Halogenated agent
- 2 We have to maintain \_\_\_\_\_ to minimize radiation exposure to your body.  
(a) Health (b) Unity (c) Distance (d) Motion
- 3 Landslides are caused due to  
(a) Intense rainfall (b) Fires (c) Humidity (d) Heat wave
- 4 The theory of \_\_\_\_\_ says that the crust is continuously stressed by the movement of the tectonic plates.  
(a) Strain (b) Yield limit (c) Plasticity (d) Elasticity
- 5 The minimum wind speed required for satisfactory working of a wind generator is  
(a) 5 km/hr (b) 15 km/hr (c) 50km/hr (d) 25km/hr
- 6 Tropical cyclone weakens when source of \_\_\_\_\_ is abruptly cut off.  
(a) High winds (b) Thunder clouds (c) Warm moist air (d) High pressure
- 7 From the production of high levels of atmospheric pollution due to major nuclear exchange leads to a " \_\_\_\_\_ " that could last for decades.  
(a) Nuclear warfare (b) Nuclear accidents (c) Nuclear explosion (d) Nuclear winter
- 8 Tsunami is caused due to  
(a) Volcanic eruption (b) Cyclone (c) Floods (d) Excavation
- 9 San Andreas fault at California, USA is caused due to which type of plate movement?  
(a) Convergent (b) Divergent (c) Rupture (d) Transformational
- 10 Pollutants causing cancer, birth defects, adverse environmental defects etc. are called as  
(a) Hazardous Pollutants (b) Chemical Pollutants (c) Biological Pollutants (d) Water Pollutants
- 11 The pathogens used for Bioterrorism, which can be moderately disseminated, causes moderate morbidity and low mortality is classified under which category by CDC?  
(a) Category D (b) Category C (c) Category B (d) Category A
- 12 Name the Indian state where thousands of people were killed due to release of methyl isocyanate gas from a Pesticide plant in 1984.  
(a) Uttar Pradesh (b) Madhya Pradesh (c) Maharashtra (d) Haryana

END OF PAPER