

# GANPAT UNIVERSITY

B. TECH. SEMESTER 2<sup>nd</sup> (CE,IT,EC,BM&I)

REGULAR EXAMINATION – MAY/JUNE:- 2012

**C:103 –ENVIRONMENT STUDY&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

**Q.1 Attempt the following:**

- (A) Define Environmental Education. And explain objectives and principal of environmental education. (06)
- (B) Explain importance of man and environmental relationship. (06)

OR

**Q.1 Attempt the following:**

- (A) Explain inter relationship between biotic and abiotic components. (06)
- (B) Explain “oxygen cycle” & “Hydrological cycle” with neat sketch. (06)

**Q.2 Attempt the following:**

- (A) Differentiate between food chain and food web. Explain the functional units of ecosystem (06)
- (B) What do you mean by “Environmental degradation”? Enumerate the suitable flow chart for environmental degradation. (05)

OR

**Q.2 Attempt the following:**

- (A) Define the following: 1) Macro Consumer. 2) Micro consumer. 3) Environment. 4) Ecology .5) Autecology. (05)
- (B) Define the following in detail: a) Atmosphere. b) Lithosphere. c) Biosphere. (06)

**Q.3 Attempt the following:**

- (A) Classification of ecology. (12)
- (B) Explain: - Forest Ecosystem.
- (C) Explain: - Grassland Ecosystem.

## SECTION - II

**Q.4 Attempt the following:**

- (A) Explain physic chemical effects and biological effects of water pollution. (06)**
- (B) Give Classification of water pollutants and explain any two. (03)**
- (C) Enlist Effects of air pollution. (03)**

**OR**

**Q.4 Attempt the following: (12)**

- (A) Describe the sources of water pollution.**
- (B) Write down the sources of air pollution and explain any one type.**
- (C) What are the sources of noise pollution?**
- (D) Explain the process of Eutrophication.**
- (E) Explain acid rain formation.**
- (F) What are the impacts of global warming?**

**Q.5 Attempt the following:**

- (A) Define: a) Perpetual Resources. b) Tangible Resource. c) Renewable Resources. d) Non-renewable Resources. e) External Resources. (05)**
- (B) Enlist the materials used in basic disaster supply kit. (02)**
- (C) Explain landslide and mudslide. (02)**
- (D) Explain solar water heater and solar cooker. (02)**

**OR**

**Q.5 Attempt the following:**

- (A) Define: - a) Mitigation. b) Tsunami. c) preparedness (03)**
- (B) Explain the terrorism and riots. (02)**
- (C) Explain classification of fire. (02)**
- (D) Explain Symptoms and first aid required for heat stroke (02)**
- (E) Explain three ways to minimize Radiation Exposure. (02)**

**Q.6 Attempt the following multiple questions (12)**

- (A) Which of the following is a renewable resource?  
(a) Coal (b) crude oil (c) LPG (d) Sun**

- (B) Which is the renewable energy having major problem of fire and explosion hazards  
(a) Wind energy (b) Hydrogen energy (c) Bio Mass energy (d) Geo Thermal energy
- (C) Afforestation is necessary for  
(a) Soil Erosion (b) Soil conservation (c) Well Control (d) low humidity
- (D) Hazardous waste should have characteristics such as,  
(a) reactivity (b) corrosivity (c) toxicity (d) all the above
- (E) Which are the following dangers not associated with the thunder storms  
(a) Tornado (b) Strong winds (c) hail (d) earthquake
- (F) Which one is primary pollutant?  
(a) Smoke (b) carbon dioxide (c) PAN (d) ozone
- (G) The word EPICENTRE is associated with  
(a) Oceanography (b) Cyclone (c) Earthquake (d) Bomb-blast
- (H) By using photocell solar energy can be converted to  
(a) Thermal energy (b) mechanical energy (c) electrical energy (d) All of these.
- (I) Which instrument used to measure earthquake  
(a) Seismography (b) thermometer (c) stethoscope (d) Rota meter
- (J) Name the calamity where there is deficiency in water supply  
(a) drought (b) flood (c) landslide (d) fire
- (K) Biodiversity means  
(a) Living natural resources (b) Micro Organisms Only (c) Sea and Oceans (d) Lithosphere.
- (L) Which gas was leaked in Bhopal gas calamity?  
(a) MIC (b) CFC (c) Chlorine (d) CO

*"END OF PAPER"*