

(Following Paper ID and Roll No. to be filled in your Answer Book)

**PAPER ID : 3151**

Roll No.

--	--	--	--	--	--	--	--	--	--

**M.C.A.**  
**(SEMESTER-II) THEORY EXAMINATION, 2011-12**  
**ENVIRONMENTAL SCIENCE AND ETHICS**

**Time : 3 Hours ]****[ Total Marks : 100****SECTION – A**

1. Attempt **all** questions. **10 × 2 = 20**
- Define the term Biodiversity.
  - What is meant by eutrophication of lakes ?
  - What are the major hazards in the use of nuclear fission power reactor ?
  - Which are the green house gases that cause global warming ?
  - What is florosis ?
  - What is food chain and food web ?
  - What are renewable energy resources ?
  - What is Chipko movement ?
  - Define the term BOD.
  - What are water borne diseases ?

**SECTION – B**

2. Attempt any **three** questions : **3 × 10 = 30**
- Define the term environment. Discuss in brief four segments of environment.
  - What is solid waste ? What are their types ? Discuss the effect of urban solid waste.
  - What are environmental ethics ? Why is it in limelight now-a-day ? “There is a growing concern that the human activities might result into catastrophic and irreversible changes in global climate” – Comment.
  - What is global warming ? What are its causes and effects ? Discuss remedial method to control it.
  - What do you mean by water conservation ? Suggest various measures that should be adopted to conserve water in domestic, agricultural and industrial front.

### SECTION – C

3. Attempt any **two** parts of the following : **2 × 5 = 10**
- (a) What is sustainable development ? Give the condition for it.
  - (b) Describe the need of awareness for the conservation and protection of environment.
  - (c) What is deforestation ? Write its cause and effect.
4. Attempt any **two** parts of the following : **2 × 5 = 10**
- (a) What are the causes of extinction of the species ?
  - (b) Describe Nitrogen cycle.
  - (c) What is ecosystem ? Describe its component.
5. Attempt any **two** parts of the following : **2 × 5 = 10**
- (a) What do you mean by ozone layer depletion ? Explain the mechanism of ozone hole formation.
  - (b) What are the causes of population explosions ? What are its effect on environment and other human aspects ?
  - (c) What are natural resources ? Enumerate the various natural resources.
6. Attempt any **two** parts of the following : **2 × 5 = 10**
- (a) Define air pollution. What are its causes ? Write its effect on plant, animals and climate.
  - (b) Explain the uses of solar energy.
  - (c) Discuss the effect of mineral extraction on environment.
7. Attempt any **two** parts of the following : **2 × 5 = 10**
- (a) What is the role of NGO in environment protection ?
  - (b) Write short note on various issues related to enforcement of environmental legislation.
  - (c) Describe conventional resources of energy.
-