

B.Sc. (With Credits)-Regular-Semester 2012 Sem I  
**01-P-I-Paper-I : Environmental Science-I :**  
**Fundamentals of Environmental Science (New & Old Course)**

P. Pages : 4

Time : Three Hours



**GUG/W/16/3309**

Max. Marks : 50

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**Fundamentals of Environmental Science (New Course)**

- Notes : 1. All questions are compulsory and carry equal marks.  
2. Illustrate the answers with suitable diagrams and examples.

1. How formation of biopolymers and appearance of living cell occurred on earth ? What are factors supporting life ? **10**

**OR**

Describe structure of atmosphere on the basis of temperature and composition.

2. Explain various processes involved and their complex interactions in hydrological cycle. **10**

**OR**

What is weathering ? Describe its types.

3. a) Explain Big Bang theory. **2½**  
b) What is lapse rate and temperature inversion ? **2½**  
c) Give an account on fresh water resources of India. **2½**  
d) Describe soil density as a property of soil. **2½**

**OR**

- e) Give structure of the earth's interior.  
f) What is precipitation ? Discuss its any two form.  
g) Describe thermal stratification of a lake.  
h) State importance of minerals.
4. a) Comment on atmosphere and hydrosphere of primitive earth. **2½**  
b) What is weather forecasting ? Explain methods for weather forecasting. **2½**  
c) Write a note on zonation in marine environment. **2½**

d) Describe types of rocks.

2½

**OR**

e) How dinosaurs disappeared from earth ?

f) Explain the method for measurement of atmospheric humidity.

g) What is lotic environment ? Discuss their characteristic features.

h) State consequences of over exploitation of mineral resources.

**5.** Answer in 2-3 lines **any ten.**

**10**

a) What is meteorite ?

b) Name any two planets of solar system.

c) What is approximate age of the earth ?

d) In which unit atmospheric pressure is reported.

e) What is secondary meteorological parameter ?

f) Name the instrument used for measurement of wind speed.

g) What are glaciers ?

h) In which unit salinity is reported.

i) After how many years normally El Nino phenomenon occurs.

j) What is petrology ?

k) Define pedology.

l) Give examples of important minerals in India.

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## Fundamentals of Environmental Science (Old Course)

Time : Three Hours

Max. Marks : 50

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- Notes : 1. All questions are compulsory and carry equal marks.  
2. Illustrate the answers with suitable diagrams and examples.

1. Describe Big Bang Theory. How atmosphere and life developed on earth ? 10

**OR**

Define meteorology. What are the meteorological parameters and how their measurements are carried out ?

2. What is hydrosphere ? Explain hydrological cycle. 10

**OR**

Describe earthquake as a geological process.

3. a) What is the scope of environmental science ? 2½

b) What are the forms of condensation ? 2½

c) Explain the zonation of marine environment. 2½

d) Describe internal structure of the earth. 2½

**OR**

e) Discuss multidisciplinary nature of Environmental Science.

f) What are the important chemical species present in atmosphere ?

g) Explain lentic environment of water.

h) How different types of rocks are formed ?

4. a) State goals and objectives of environmental education. 2½

b) Discuss the role of satellite in weather forecasting. 2½

c) Give fresh water requirement of India. 2½

d) Explain types of weathering. 2½

**OR**

e) How formal environmental education in India is organized ?

f) Draw a diagram and explain different regions of atmosphere.

- g) What are the freshwater resources of India ?
- h) Explain soil density as physical property of soil.

5. Answer in 2-3 lines **any ten**.

**10**

- a) What is meteorite ?
- b) What is fragile environment ?
- c) Name the national environmental organizations.
- d) Which are the different types of particulates present in the atmosphere ?
- e) What is humidity ?
- f) What are the different forms of precipitation ?
- g) What is the lotic environment ?
- h) What are glaciers ?
- i) What is salinity of water ?
- j) State the types of geological processes.
- k) What is pedology.
- l) What is basic soil ?

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