

B.Sc. (Part - I) (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

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.

Fundamentals of Environmental Science (Old Course)

Time : Three Hours

Max. Marks : 50

-
- Notes : 1. All the 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 ?
