

B.Sc.(Part-I)(With Credits)-Regular-Semester 2012 Sem II
2SEVS-T1-Environmental Science-I :
Paper-I (Environmental Chemistry) (New Course)
(Environmental Chemistry and Geosciences) (Old Course)

P. Pages : 4



GUG/W/16/5575

Paper-I (Environmental Chemistry) (New 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 characteristics of ocean w.r.t. temperature, pH and dissolved material. **10**

OR

With suitable chemical reactions explain formation and destruction of ozone layer.

2. Discuss environmental priorities in India. **10**

OR

Describe contribution of NGO'S in environmental protection.

3. a) What are the effects of over exploitation of water? **2½**
b) Explain in brief green house process. **2½**
c) State need for environmental science. **2½**
d) Describe the concept of sustainable development. **2½**

OR

- e) Explain the structure of water. **2½**
f) Discuss control measures for global climate change. **2½**
g) How sanitation and health are associated with each other? **2½**
h) What are the principles of Bishnoi community for environmental protection? **2½**
4. a) Write an informative note on availability of water resources. **2½**
b) State effects of ozone layer depletion on plants and biotic communities. **2½**
c) Describe formal environmental education in India. **2½**

d) Give principles of sustainable development. 2½

OR

e) Describe salinity and buoyancy as a physical properties of water. 2½

f) Write a note on status of ozone layer. 2½

g) How industries can be made cleaner and greener? 2½

h) Discuss in brief peoples participation for environmental protection. 2½

5. Answer in 2-3 lines **Any ten.** **10**

a) Define specific heat of water.

b) Give types of subsurface water.

c) What are deltas?

d) State global warming potential of CO₂ gas.

e) Name islands which will get affected due to global climate change.

f) Ozone layer is measured in which unit.

g) Give examples of international environmental organization.

h) Name the city where Earth summit 1992 took place.

i) What is environmental education?

j) Define sustainable development?

k) On which river Sardar Sarovar project is situated?

l) Name any two national NGO's working for environmental protection.

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1. Explain the evolution of terrestrial and major planets. 10

OR

Define global warming. Explain the process of green house effect. Add a note on consequences of green house effects. 10

2. Explain salinity, expansion and freezing as a physical properties of water. 10

OR

Describe soil density, soil texture and soil organic matter as properties of soil. 10

3. a) Explain man and environment relationship. 2½

b) State the role of temperature inversion in air pollution. 2½

c) Discuss the effects of over exploitation of water. 2½

d) What are the effects of drought? 2½

OR

e) Describe applied branches of environmental science. 2½

f) With chemical reactions explain mechanism of ozone layer depletion. 2½

g) Give the types of subsurface water. 2½

h) State the importance of minerals. 2½

4. a) State highlights of earth summit 1992. 2½

b) Write a brief note on segments of total environment. 2½

c) Discuss the structure of water with a neat sketch. 2½

d) What are the consequences of over exploitation of minerals resources? 2½

OR

e) Describe the structure of earth. 2½

- f) Define inversion Describe the role of inversion in air pollution. 2½
- g) Give the chemical composition of ocean water. 2½
- h) Explain the formation of mineral deposits. 2½

5. Answer in 2-3 lines **Any ten.** **10**

- a) What CEE stands for?
- b) Give examples of major planets.
- c) What are the components of environment?
- d) Define lapse rate.
- e) Dobson unit is associated with.
- f) Name any two green house gases.
- g) What is specific heat of water?
- h) Define estuary.
- i) State the freezing point of water.
- j) Name the important minerals in India.
- k) What are landslides?
- l) Define soil erosion.
