Total No. of Questions : 5]

SEAT No. :

P523

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F. Y. B. Sc.
ENVIRONMENTAL SCIENCE
EVS - 101 : Fundamentals of Environmental Chemistry & Fundamentals of Environmental Biology
(New Course) (Paper - I) (2013 Pattern) (Theory)

Time : 3 Hours] *[Max. Marks : 80*

Instructions to the candidates:

1) ***All questions are compulsory.***
2) ***Neat and labeled diagrams must be drawn wherever necessary.***
3) ***Figures to the right indicate full marks.***

Q1) Answer the followings in not more than 5 lines: **[16]**

a) Define: Heavy Metal.

b) What are Adulterants?

c) Give any two physical properties of water.

d) What is molarity?

e) What is Domain?

f) Define : Evolution.

g) Explain the concept of 'Sub-Species'.

h) What is Habitat loss?

Q2) Answer any four of the following: **[16]**

a) Explain the 'Oxygen Cycle' in detail.

b) State the physical and Chemical properties of Water.

c) What is the scope of Environmental Chemistry.

d) Explain Geological factors for distribution of life on earth.

e) Give the ecological adaptations of plants.

f) Explain the components of systematics.

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Q3) Write short notes on any four of the following: **[16]**

a) Sulphur Cycle.

b) Titrimetric Methods.

c) Food Additives.

d) Continental Drift.

e) Classification of Microbes.

f) Speciation.

Q4) Answer any two of the following: **[16]**

a) Explain Mass Extinction in detail.

b) Explain biogeographic profile of India.

c) What is pesticide? Explain its impact on environment.

d) Explain interactive reactions between any two segments of environment.

Q5) Answer any one of the following: **[16]**

a) What is Adulteration? State it's impact on environment and Human health.

b) What is Bioresource? Explain it's significance, Extraction method and threats to Bioresource.