

Total No. of Questions :8]

SEAT No. :

[Total No. of Pages :2

P1742

[5230] - 101

M.Sc.

ENVIRONMENTAL SCIENCE

EVSC - 101 : Environmental Biology

(2013 Pattern) (Semester - I)

Time : 3 Hours]

[Max. Marks :50

Instructions to the candidates:

- 1) Solve any Five Questions from the following.*
- 2) Neat and labeled diagrams must be drawn wherever necessary.*
- 3) Figures to the right indicate full marks.*

Q1) Answer the following:

[10]

- a) How environmental factors such as light, moisture / rain and soil affects the vegetation and animal life.
- b) Define an 'ecosystem', explain its components and flow of energy.

Q2) Answer the following with the help of example explain following: [10]

- a) How different anthropogenic activities affects the functioning of eco-systems?
- b) How nutrient cycling takes place.

Q3) Comment on following:

[10]

- a) Use of different tools by animals and migration behaviour of birds.
- b) Breeding behaviour and parental care.

Q4) Write a short note on following:

[10]

- a) Soil, Climate and Vegetation observed in dessert biome.
- b) Zonation / stratification of lakes or ponds.

P.T.O.

Q5) Answer the following: [10]

- a) Write in detail about the adaptations of plants and animals observed in marine eco-system.
- b) Which environmental factors are responsible for abundance and distribution of a species / population?

Q6) Describe in detail [10]

- a) Ecotone and edge effect.
- b) Primary and Secondary succession.

Q7) Answer the following: [10]

- a) Classify micro-organisms and discuss their association with man.
- b) Explain, how micro - organisms are helpful in the process of ecological restoration?

Q8) Write short notes on the following: [10]

- a) Ecological functions of wetlands.
- b) Ethology, socio-biology and learning behaviour.

