

VCD 211015

TYBSC-Zoology

Course Code – USACEVS501

SUBJECT-AC(Environmental Science and Pollution)

SEM-V

Date _____

Duration 2 ½- hours

Max marks -75

Note: (1) Question No.9 is compulsory.

(2) Attempt any **four** questions from Q.No. 1 to Q.No.8.

(3) All questions carry **equal marks**..

(4) Draw neat **labelled diagrams** wherever necessary

1. (a) Discuss the physico-chemical characteristics and composition of atmosphere 7

OR

(a) Explain the water cycle and hydrosphere. 7

(b) Describe the composition of inorganic and organic components in soil and write a note on soil. 8

OR

(b) Write a brief account of types of biomes 8

2. (a) Write a note on Land as a resource and land degradation. 7

OR

(a) Discuss the current status of mineral and energy resources in India. 7

(b) Write a note on need for conservation of natural resources. 8

OR

(b) Define natural resources. Write note on types of resources. 8

3. (a). What are sources and effects of water pollution. 7

OR

(a) Write note on types and effects of air pollution. 7

(b) Write a note on types of radiation and its effect on health. 8

OR

(b) Describe the effects of noise pollution. 8

4. (a) Give detailed account of principle and application of Remote Sensing. 7

OR

(a) Explain in detail the concept of environmental risk assessment 7

(b) Write note on monitoring and assessment techniques of water pollution. 8

OR

(b) Write note on monitoring and assessment techniques of air pollution. 8

5. (a) Define solid waste management. Classify solid waste on the source of generation. 7

OR

(a) Explain open dumping and sanitary land filling as methods for solid waste disposal. 7

(b) Write note on solid waste as a useful resource. 8

OR

(b) Write note on composition and treatment of solid waste. 8

6. (a) Write note on greenhouse gases. 7

OR

(a) Write a note on climate change. 7

(b) Write a note on UN convention on climate change. 8

OR

(b) Write a note on global warming. 8

7. (a) Give a detailed account of environment education in India 7

OR

(a) Discuss the goals and principles of environment education in India. 7

(b) Explain:-

(i) Air Prevention and Control of Pollution Act, 1981 8

(ii) Biological Diversity Act, 2002.

OR

(b) Write a note on environmental organisations in India. 8

8. (a) Write a detailed note on various strategies needed for sustainable development. 7

OR

(a) Write note on various policies of sustainable development 7

(b) Discuss Ecotourism. 8

OR

(b) Write note on various indicators of sustainable development. 8

Write short notes on any **Five** of the following.

- (a) Significance of components of Atmosphere.
- (b) Composition of Biosphere
- (c) Biological resource
- (d) Methods of conservation of Water resource
- (e) Sources of Noise pollution
- (f) Sources of Air pollution.
- (g) Types of GIS
- (h) Applications of GIS
- (i) Hazardous Waste
- (j) Pyrolysis
- (k) Kyoto Protocol
- (l) Montreal Protocol
- (m) CITES
- (n) EPA
- (o) Strategies of sustainable development
- (p) Challenges of sustainable development

END