

Total No. of printed pages = 3

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Roll No. of candidate

B. Tech 4th Semester End–Term Examination

Environmental Science

New Regulation (w.e.f 2017-18)

New Syllabus (w.e.f 2018-2019)

Full Marks–100

Time–Three Hours

The figures in the margin indicate full marks for the questions

1. Give short answers of the following:

1×10=10

(a) What are the two major components of ecosystem?

(b) Which is not a physical factor of an ecosystem?

(i) Temperature

(ii) Water

(iii) Light

(iv) Humidity

(c) Food web is _____ food chains.

(d) Give two examples of non-culturable wasteland.

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~~(c)~~ What do you mean by wasteland reclamation?

(f) What is the maximum acceptable concentration of carbon monoxide in atmosphere?

~~(g)~~ How is smog formed?

(h) Which of the following gas destroys the chlorophyll present in the plant leaves?

(i) H_2S

(ii) CH_4

(iii) CO_2

(iv) SO_2

~~(i)~~ Which of the following is not a measure of sustainable water management?

~~(i)~~ Preventing leakage from dams and canals

(ii) Reducing the rate of surface run-off water

(ii) Preventing loss in the municipal pipes

(iv) Building more reservoirs in place of a few mega projects

(j) Which of these elements is present in the drinking water that can lead to numerous fatal diseases?

(i) Arsenic

(ii) Phosphorus

(iii) Calcium

(iv) Chlorine

~~1.~~ ~~(a)~~ What do you mean by science of ecology? Define autecology and synecology along with the structural and functional attributes. 2+3=5

~~(b)~~ Why human ecology is studied as separate discipline? Describe the division of human ecology with example. 2+3=5

3. What are the organization levels of ecological systems? Explain with examples. 10
4. (a) Define communities. Explain all the variable features of communities. 2+8=10
Or
(b) Define atmosphere? Explain all the different layers of atmosphere. 2+8=10
5. (a) Discuss the five most common uses of land use. How land uses differ from land cover? What are the causes of land pollution? 5+2+3=10
Or
(b) What is wetland? Give the definitions of different types of wetlands. Why wetlands are considered as earth's kidney? 2+4+4=10
6. Explain various methods to control the Air Pollution? 10
7. Write a short note on any two of the following: 5x2=10
(a) Air Quality Index (AQI)
(b) Ozone layer Depletion
(c) Environmental Protection Act, 1986.
8. Describe the different effects caused due to industrial effluents and thermal waste. 5+5=10
9. (a) What are the parameters of water pollution? Explain each one of them. 2+8=10
Or
(b) Explain any three legislative measures on water pollution. 10
10. Explain briefly the different physiological and psychological effects caused due to noise pollution. 10
