

Code : 011202**B.Tech 2nd Semester Examination, 2017****Environmental Science**

Time : 3 hours

Full Marks : 70

Instructions :

- (i) There are **Nine** Questions in this Paper.
(ii) Attempt **Five** questions in all.
(iii) **Question No. 1 is Compulsory.** akubihar.com
(iv) The marks are indicated in the right-hand margin.

1. Choose the correct answer (any seven). 2×7

- (a) At lower temperature the rate of biological activity
(i) increases
~~(ii) decreases~~
(iii) doesnot increase or decrease
(iv) none of these
- (b) The turbidity is measured photo metrically by
(i) Jackson turbidimeter
(ii) Nephlo turbidimeter akubihar.com
~~(iii) both (i) and (ii)~~
(iv) only (ii)
- (c) The upper limit of total dissolved solids on potable water is recommended as

- (i) 500 mg/l
(ii) 1000 mg/l
(iii) 1500 mg/l
~~(iv) 800 mg/l~~

- (d) Collection of solid waste is
(i) the gathering of solid wastes
(ii) the hauling of wastes after collection to the location where the collection vehicle is empties
~~(iii) both (a) and (ii)~~ akubihar.com
(iv) none of these
- (e) The landfills may take the following form
(i) above ground landfills only
(ii) below ground land fills only
~~(iii) a combination of the above~~
(iv) all of the above
- (f) To obtain the dry weight, the solid waste material is dried in an oven at
~~(i) 77°C for 1 hr~~
(ii) 105°C for 24 hr akubihar.com
~~(iii) 77°C for 24hr~~
(iv) none of these
- (g) Separation is a necessary operation
(i) for sources recovery from wastes

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(ii) for energy recovery

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(iii) where conversion products are to be recovered from processed waste

(iv) all of the above

(i) In fabric filters, the electrostatic force between particles and filters

(i) decreases the collection efficiency

(ii) increases the collection efficiency

(iii) are responsible for diffusion.

(iv) none of these

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(j) The atmospheric concentration of NO_2 for sensitive areas as given by CPCB

(i) $50 \mu\text{g}/\text{m}^3$

(ii) $80 \mu\text{g}/\text{m}^3$

(iii) $30 \mu\text{g}/\text{m}^3$

(iv) $20-40 \mu\text{g}/\text{m}^3$

(h) Ozone depletion in stratosphere will result in

(i) Forest-Fires

(ii) increased incidence of skin cancer

(iii) global warming

(iv) eye Irritation

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2. (a) Discuss the impact of Air pollution on environment? 7

(b) Explain depletion of ozone layer. 7

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3. (a) Give the methods for control of noise pollutions? 7
(b) Define biodiversity? Discuss the methods to protect biodiversity? 7

4. (a) What are the reasons for decline of biodiversity? 7
(b) Define Soil Degradation? Also give its causes and effects? 7

5. (a) Explain source path receiver concept for noise pollution control. 7

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(b) Explain the main component of our environment. 7

6. Discuss any two environmental laws enforced by the government in order to protect the environment. 14

7. (a) Explain the importance of biodiversity in detail? 7
(b) Explain the methods how can control soil pollution? 7

8. (a) What do you mean by Acid Rain? Also write its effects on plant? 7

(b) What is Ozone Layer Depletion? Explain its causes and effects? 7

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9. (a) Explain impact of water quality on human health. 7

(b) Explain the impact of climate change and human health. 7

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