

B.Tech 8th Semester Exam., 2020

INDUSTRIAL POLLUTION

Time : 3 hours

Full Marks : 70

Instructions :

- (i) The marks are indicated in the right hand margin.
- (ii) There are **NINE** questions in this paper.
- (iii) Attempt **FIVE** questions in all.
- (iv) Question No. 1 is compulsory.

1. Choose the correct answer of the following
(any seven) : 2×7=14

- (a) Air pollution may be caused by
- ~~(i)~~ human activities
 - (ii) natural disastrous events
 - (iii) Both (i) and (ii)
 - (iv) None of the above

(b) Longer exposure to NO₂ even in small concentrations may cause disease pertaining to

- (i) liver
- ~~(ii)~~ lungs
- (iii) kidneys
- (iv) heart

(Turn Over)

(c) The most significant environmental issue, threatening human health is

- ~~(i)~~ global warming
- (ii) acid rain
- (iii) ozone hole
- (iv) None of the above

(d) The polluted water is one which

- (i) contains pathogenic bacteria
- ~~(ii)~~ consists of undesirable substances rendering it unfit for drinking and domestic use
- (iii) is safe and suitable for drinking and domestic use
- (iv) is contaminated

(e) Which of the following is not a water-borne disease?

- (i) Dysentery
- ~~(ii)~~ Malaria
- (iii) Cholera
- (iv) Typhoid

(Continued)

(f) Dental caries in children may be caused due to water supplies which are deficient in

(i) calcium

(ii) iron

~~(iii) fluorides~~

(iv) None of the above

(g) In case of flocculator, G means

(i) velocity gradient

(ii) viscosity

(iii) power dissipated

(iv) specific gravity

(h) Compost is being used for all of the following, *except*

(i) landfill cover

(ii) landscaping

(iii) low-grade fertilizers

(iv) agricultural feed

(i) The method of refuse disposal, involving burial in trenches, is called

(i) incineration

(ii) pulverization

(iii) composting

(iv) None of the above

(j) Disinfection of water results in

(i) removal of turbidity

(ii) removal of hardness

(iii) complete sterilization

~~(iv) killing of disease bacteria~~

2. Unawareness or ignorance with protection of environment will lead to detrimental consequences. Comment with illustrations. 14

3. What is ecosystem? Describe the energy flow in an ecosystem. How is the understanding of an ecosystem necessary for preserving the ecosystem? 14

4. Differentiate between composting and vermi-composting. Give different types of composting in use and describe with sketches. 14

5. Write an account on effects and control methods of air pollution. Describe the negative lapse rate and its various types with examples. 14
6. What is noise? What are the ill effects of noise pollution? Explain the methods used for reducing residential noise. 14
7. Describe the concept, principle, advantages and limitation of zero effluent discharge systems in industries. 14
8. List and write about the steps that are to be followed when conducting an EIA for coal industries. 14
9. Write short notes on any *four* of the following : $3\frac{1}{2} \times 4 = 14$
- (a) E-waste
 - (b) 3R in solid waste
 - (c) Population explosion
 - (d) Ambient air quality standards
 - (e) Physical characteristics of water

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