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.
- (iv) The marks are indicated in the right-hand margin.
- 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
 - (iii) both (i) and (ii)
 - (iv) only(ii)
- (c) The upper limit of total dissolved solids on potable water is recommended as

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- (i) 500 mg/l
- (ii) 1000 mg/l
- (iii) 1500 mg/1
- (iv) 800 mg/1
- (d) Collection of solid waste is
 - 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)
 - (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
 - 77°C for 1 hr
 - (ii) 105°C for 24 hr
 - 面 77°C for 24hr
 - (iv) none of these
- (g) Separation is a necessary operation
 - (i) for sources recovery from wastes

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(u) for energy recovery		
(iii) where conversion products are to be recovered from processed waste (iv) all of the above	3 (a) Give the methods for control of noise pollutions? (b) Define biodiversity? Discuss the methods to pro-	
(i) In fabric filters, the electrostatic force between particles and filters	biodiversity? (a) What are the reasons for decline of biodiversity?	7 7
(ii) increases the collection efficiency	(b) Define Soil Degradation? Also give its causes and effe	ects'
(iii) are responsible for diffusion. (iv) none of these	 (a) Explain source path receiver concept for noise pollu control. 	itior 7
(j) The atmospheric concentration of NO ₂ for sensitive areas as given by CPCB	(b) Explain the main component of our environment.6. Discuss any two environmental laws enforced by	the
(i) 50 μg/m ³ (ii) 80 μg/m ³ (iii) 30 μg/m ³	government in order to protect the environment. 7. (a) Explain the importance of biodiversity in detail?	14 7
 (iv) 20-40 μg/m³ (h) Ozone depletion in stratosphere will result in 	(b) Explain the methods how can control soil pollution? 276,220 10 0000006 8. (a) What do you mean by Acid Rain? Also write its effe on plant?	' 7 ects 7
(i) Forest-Fires (ii) increased incidence of skin cancer	(b) What is Ozone Layer Depletion? Explain its causes effects?	and
(iii) global warming (iv) eye Irritation 7 (a) Discuss the impact of Air pollution on environment? 7	9. (a) Explain impact of water quality on human health.(b) Explain the impact of climate change and human hea	ilth.
(b) Explain depletion of ozone layer. Code: 011202 P.T.O.		7