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Question Paper Code: 59713

B.E. / B.Tech. DEGREE EXAMINATION, NOV 2020

Fifth Semester

Civil Engineering

15UCE504 – ENVIRONMENTAL ENGINEERING

(Regulation 2015)

Duration: One hour

Maximum: 30Marks

PART A - (6 x 1 = 6 Marks)

(Answer any six of the following questions)

1. The fluoride content in the drinking water should not exceed CO1- R
(a) 200 mg/L (b) 150 mg/L (c) 50 mg/L (d) 1 mg/L

2. Which of the following industry will usually have the highest consumption of CO1- R
water for processing?
(a) Foundry (b) Steel plant
(c) Automobile Industry (d) None of the above

3. Disinfection of drinking water, is done to remove_____ CO2-R
(a) Odour (b) Colour (c) Bacteria (d) Turbidity

4. The process of inducing oxygen to the raw water is called as ___ CO2- R
(a) Disinfection (b) Softening (c) Aeration (d) Liming

5. A small sized curved pipe made of flexible material is CO3- U
(a) Ferrule (b) Service pipe (c) Goose neck (d) Cowl

6. The water-tap of your house is known as CO3- R
(a) Sluice tap (b) Stop cock (c) Bib cock (d) Ferrule

7. Municipal wastewater is mainly comprised of water CO4- U
(a) 80% (b)70% (c) 99% (d) 99.9%

8. The specific gravity of sewage is CO4- R
(a) >1 (b)=1 (c)<1 (d) None of the above

9. Gases produced during aerobic sewage digestion are CO5- U
(a) CO₂, NH₃, H₂S (b) CO₂, NH₃, H₂S, CH₄ (c) CO₂, NH₃, SO₂ (d) NH₃, SO₂
10. The gas which has high calorific value is _____ CO5- U
(a) Carbon monoxide (b) CO₂ (c) CH₄ (d) Ammonia

PART – B (3 x 8= 24 Marks)

(Answer any three of the following questions)

11. Explain various types of water demands. CO1- U (8)
12. Explain in detail about Disinfection process and their methods. CO2- U (8)
13. State the functions of a Service Reservoir, and sketch the sectional elevation of the same, showing the various appurtenances. CO3- U (8)
14. Write in detail about the characteristics and composition of sewage. CO4- U (8)
15. Write about the disposal of wastewater in natural water sources along with its impacts. CO5- U (8)