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Question Paper Code: 58163

B.E. / B.Tech. DEGREE EXAMINATION, NOV 2018

One Credit

Civil Engineering

15UCE863- WATER CONSERVATION TECHNIQUES

(Regulation 2015)

Duration: 1.30 hours

Maximum: 50 Marks

Answer ALL Questions

PART A - (10 x 1 = 10 Marks)

- The permissible limit of pH in wastewater to be used for irrigation is_____.
(a) White gold (b) Black gold (c) Blue gold (d) Green gold
- The Non recording type of rain gauge give the amount of precipitation for _____
(a) 1 week (b) 1 day (c) 3 days (d) 5 days
- The coefficient of discharge for an orifice set up is
(a) 0.2 - 0.4 (b) 0.8 - 1.2 (c) 0.6 – 0.8 (d) 0.3 – 0.5
- The area where the river catches its catchment is
(a) Pond (b) Water shed (c) Delta (d) Upstream
- The angle of repose for moist earth is
(a) 25 to 30 (b) 15 to 20 (c) 45 to 49 (d) 30 to 40
- Which technology delivers water to the surface without the need for pumping?
(a) Qanat (b) Noria (c) Saquiya (d) All the above
- Which city is famous for Water Wars?
(a) Kolkata (b) Mumbai (c) Cochabamba (d) Bangalore

8. When was the Central Waterways Irrigation and Navigation Commission (CWINC) formed?
(a) 1942 (b) 1946 (c) 1945 (d) 1943
9. The height of contour bund ranges from
(a) 0.3 to 1 m (b) 0.5 to 1.5 m (c) 1.5 to 2 m (d) More than 2 m
10. The permissible limit of BOD₅ in wastewater to be used for irrigation is _____.
(a) 1000 mg/l (b) 700mg/l (c) 500 mg/l (d) 800 mg/l

PART – B (5 x 2= 10 Marks)

11. What is meant by watershed Management?
12. What are the advantages of farm ponds?
13. Mention the measures adopted for conservation forestry.
14. How can pond maintenance be made effective?
15. How rainwater harvesting system is beneficial?

PART – C (2 x 15= 30 Marks)

16. (a) Explain the causes of water logging. Also mention the methods to control water logging in detail. (15)
- Or
- (b) Explain in detail about different ground water recharge techniques. (15)
17. (a) Explain the steps involved in construction of farm pond. (15)
- Or
- (b) Explain in detail about evaporation control process. Also mention the factors affecting evaporation control. (15)