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JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -1 EXAMINATION- 2016

M.Tech I Semester/B.Tech VIII Semester

COURSE CODE: 14M31CE215

MAX. MARKS: 15

COURSE NAME: SURFACE WATER QUALITY MANAGEMENT

COURSE CREDITS: 03

MAX. TIME: 1 HR

*Note: All questions are compulsory. Carrying of mobile phone during examinations will be treated as case of unfair means.*

- Q1.a) Distinguish between 'Water Quality Criterion' and "Water Quality Standard" [02 Marks]
- b) A municipal wastewater treatment plant has a discharge of 36 MGD and an effluent BOD concentration of 14 mg/L. What is the BOD discharge load in Kg/day? (1 US Gallon = 3.785 L) [02 Marks]
- Q2. a) What do you mean by "Designated -Best-Use" of a water body? What criteria is used in order to designate a surface water body as Class "A" and Class "E" [03 Marks]
- b) The allowable discharge BOD load from a municipality has been established by the state regulatory agency at 1815 kg/day. If the flow is 50MGD, what is the allowable effluent concentration in mg/L? (1 US Gallon = 3.785 L) [03 Marks]
- Q3.a) Under the Water (Prevention and Control of Pollution) Act 1974, discuss about the constitution of a Central Board [03 Marks]
- b) What are the functions (mention at least four) of a central board [02 Marks]