

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -1 EXAMINATION- 2016

M.Tech I Semester

COURSE CODE: 14M31CE215

MAX. MARKS: 15

COURSE NAME: SURFACE WATER QUALITY MANAGEMENT

COURSE CREDITS: 03

MAX. TIME: 1 HR

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

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- Q1.a) What do you mean by “Designated –Best-Use” of a water body? How the classification of surface water bodies are done in India based on designated best use and what is the criteria used for such classification [03 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. [02 Marks]
- Q2.a) What are the objectives of water quality monitoring? Under surface water quality management, what procedure you would follow to assess the nature and magnitude of the pollution in a river [03 Marks]
- b) What were the objectives of undertaking Ganga Action Plan. Mention some of its salient features [02 Marks]
- Q3.a) Distinguish between a “Grab”, “Time-Composite” and “Flow-Composite” Sample [03 Marks]
- b) Mention the detailed list of items that need to be carried during surface water sampling mission [02 Marks]