

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

T-1 EXAMINATION (February- 2020)

B. Tech. (VIII- SEM.)

COURSE CODE: 14M31CE215

MAX. MARKS: 15

COURSE NAME: Surface Water Quality Management

COURSE CREDIT: 3

MAX. TIME: 1 HR

*Note: Attempt all Questions. Assume suitable data if required.*

1. 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

[4 Marks] [CO-2]

2. What are the objectives of water quality monitoring? Under surface water quality management plan, what procedure you would follow to assess the nature and magnitude of the pollution in a river water body.

[3 Marks] [CO-1]

3. Define the following: -

[2 Marks each]

[CO-1&2]

(a) Mention various steps prescribed by CPCB Guidelines for Surface Water Quality?

(b) What are the various options available for restoration of water quality in a surface water body?

(c) Distinguish between a “Grab”, “Time-composite” and “Flow-composite” sample?

(d) Mention at least 6 most important items to be carried during sampling mission?