

**M. TECH.-IV (CIVIL-HYDRAULIC ENGINEERING) (CBCS –  
2015 COURSE) : SUMMER - 2018**

**SUBJECT: SELF STUDY PAPER-II RESERVOIR SEDIMENTATION**

Day: **Tuesday**  
Date: **19/06/2018**

**S-2018-3041**

Time: **11.00 AM TO 02.00 PM**  
Max Marks. 60

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**N.B.**

- 1) All questions are **COMPULSORY**.
  - 2) Figures to the right indicate **FULL** marks.
  - 3) Answers to both sections should be written in **SEPARATE** answer books.
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**SECTION - I**

**Q.1** Explain the effect on upstream side of dam due to sedimentation (10)

**OR**

Describe the various factors affecting sediment inflow and outflow in the reservoir

**Q.2** What are density currents? Explain the effects of density currents in sedimentation. (10)

**OR**

What is degradation? Explain the degradation process on downstream side of dam. State effects of degradation.

**Q.3** Explain any two empirical methods of prediction of reservoir sedimentation. (10)

**OR**

Describe the procedure of prediction of reservoir sedimentation by area increment method.

**SECTION - II**

**Q.4** What is suspended load? Explain with sketches of any two methods used for measurement of suspended load. (10)

**OR**

Compare between conventional survey method and remote sensing method of estimation of reservoir sedimentation.

**Q.5** Describe in detail the case study of problem of reservoir sedimentation in India. (10)

**OR**

Explain various land treatment methods to check the inflow of sediments in reservoirs

**Q.6** Explain the use of capacity inflow and trap efficiency curves in estimation of life of reservoir. (10)

**OR**

Describe the different concept practice in USA for estimation of life of reservoir.

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