**Rajasthan Institute of Engineering & Technology, Jaipur.**

**II Mid Term examination**

 **Session: 2017-18 Set-B**

**VIII Semester & CIVIL Branch**

**Subject: - WRE-II**

**Code: - 8CE1A**

Time: 2 hrs. M.M.:20

Q.1 Describe general features of hydroelectric scheme?

 **OR**

Q.1 Describe the different types of spillway with sketches?

Q.2 What are the essential requirement of spillway?

 **OR**

Q.2 Describe and sketch Ogee shaped spillway with equation of its downstream and upstream profile?

Q.3 What do you understand by reservoir sedimentation. How it is helpful in determination of life of a reservoir?

 **OR**

Q.3 Explain what do you understand by watershed management? Explain the various methods of watershed management?

 **OR**

Q.4 Design a Sarda type fall for a canal and draw neat sketch for the following data:

 (a) Discharge $\frac{U/S}{D/S}$ = $\frac{15 cumecs}{15 cumecs}$ (b) Full supply level $\frac{U/S}{D/S}$ = $\frac{201.5}{200.0}$ (c) Drop= 1.5 m

 (d) Bed level $\frac{U/S}{D/S}$ = $\frac{200.0}{198.50}$ (e) Bed width $\frac{U/S}{D/S}$ = $\frac{10.0 m}{10.0 m}$ (f) Full supply depth $\frac{U/S}{D/S}$ = $\frac{1.50 m}{1.50 m}$

 (g) Bligh’s creep coefficient= 9

  **OR**

**Q.4** Write the design steps of various components of Sarda type fall?