

**M. TECH.-IV (CIVIL-HYDRAULIC ENGINEERING) (CBCS –
2015 COURSE) : SUMMER - 2018**
**SUBJECT: SELF STUDY PAPER – II SOIL CONSERVATION & WATERSHED
MANAGEMENT**

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

S-2018-3040

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

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 various physiographical parameters and hydrological parameters (10) affecting soil conservation from watershed.

OR

Describe the effect of vegetation, geology and soils on watershed and soil conservation practice.

Q.2 What are the forces that influence splash erosion? Describe the raindrop (10) characteristics affecting splash erosion.

OR

Describe the various equations used for estimation of water erosion losses.

Q.3 Explain effect of mulching and crop rotation on soil conservation. (10)

OR

Describe with sketches terracing method of soil erosion control.

SECTION - II

Q.4 Explain the use of surface drainage system for reclamation of water logged (10) and wet lands.

OR

Explain the controlling measures for reclamation of small and medium gullies.

Q.5 State and explain in brief land management practices in semiarid zones. (10)

OR

What are the problems of arid zones of country? Explain in brief.

Q.6 Describe the meteorological, hydrological and soil and land use data required (10) in watershed management planning.

OR

Explain socio economic issues in watershed management.

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