

(Following Paper ID and Roll No. to be filled in your
Answer Books)

Paper ID : 189661

Roll No.

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B.TECH.

Theory Examination (Semester-VI) 2015-16

WATERSHED PLANNING & MANAGEMENT

Time : 3 Hours

Max. Marks : 100

Section-A

Q1. Attempt all parts of the following: (2×10=20)

- (a) Define Watershed?
- (b) Name any two examples of Watershed management carried out in India?
- (c) What do you mean by open well yield?
- (d) Mention any two diversion structures?
- (e) Differentiate between sand and sediment?
- (f) Give any four methods of in-situ moisture conservation methods?

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- (g) Define the term "watershed Hydrology"?
- (h) Name any two methods of people's participation in a soil conservation programme?
- (i) What is soil conservation?
- (j) Mention any two case studies of India adopted for watershed management?

Section-B

Q2. Attempt any five parts of the following: (10×5=50)

- (a) Explain the project formulation for a hilly watershed?
- (b) How a step by step evaluation be ensured for the development of watershed management?
- (c) "Rainwater harvesting is the need of today" Comment on it in details?
- (d) What is the effect of cropping pattern on water budgeting of a watershed?
- (e) What do you mean by watershed delineation? Explain?

- (f) Mention the current report of rainwater conservation technologies?
- (g) Explain the factors affecting the watershed management under Indian scenario?
- (h) What are the basics of land use assessment assessment?

Section-C

Attempt any two parts of the following: (15×2=30)

- Q3. Write an essay on "Problems and Prospects of watershed management"?
- Q4. "Discuss the hydrologic and hydraulic design of earthen embankment"?
- Q5. Write short note on the following:
 - (i) Watershed characteristics.
 - (ii) Optimal land use models.