

# SCHOOL OF PLANNING AND ARCHITECTURE, VIJAYAWADA

SEMESTER END EXAMINATIONS (REGULAR), NOVEMBER-2016

## B.PLANNING, II YEAR III SEMESTER (CE)

INTRODUCTION TO INFRASTRUCTURE FOR HUMMAN SETTLEMENTS (10210305)

Maximum Marks – 50

Time – 2.00 Hours

*a) Answer any Two questions out of 1 to 4 questions.*

*b) Question No.5 is compulsory and answer any four out of six sub-questions.*

- Q1. Define Wet Weather flow. Assuming the catchment area of a (15M)  
city as 200 hectares and the surface run-off coefficient as  
0.45, calculate the quantity of stormwater which will reach  
the sewer for a maximum rainfall intensity of 1 cm/hr.
- Q2. What are the considerations in the layout of sewer lines? (15M)
- Q3. Define sewer appurtenances. Describe the different sewer (15M)  
appurtenances.
- Q4. Explain the various low cost appropriate techniques (15M)  
available for onsite sanitation.
- Q5. Write short notes on any FOUR of the following: (4x5=  
20M)
- What are the factors affecting the per capita water demand?
  - Explain the functions of a distribution reservoir
  - Define hyetograph and monograph
  - Define 3R concept and 4R concept of waste management
  - List the different water distribution patterns
  - What are the different materials used for a sewer?

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