

SCHOOL OF PLANNING AND ARCHITECTURE, VIJAYAWADA
SEMESTER END EXAMINATIONS (REGULAR) APRIL – MAY - 2017
B.PLANNING II YEAR IV SEMESTER (CE)
UTILITIES & NETWORK PLANNING (10210405)

Maximum Marks – 50

Time – 2.00 Hours

a) Answer any Two questions out of I to 4 questions.

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

c) Calculators are allowed.

- Q1. How do you critically evaluate an existing road network (15M) of a city?
- Q2. Design the section of a combined circular Sewer for full (15M) flow from the data given below.
Area to be served = 150 ha
Population of locality = 50,000
Maximum permissible velocity = 3.2 m/s
Time of entry = 5 min
Time of flow = 20 min
Rate of water supply = 270 lpcd
Runoff coefficient = 0.45
Assume 75% of water supply converts into sewage.
- Q3. Explain the procedure for DEWATS with a diagram. (15M)
Mention its advantages.
- Q4. (i) What is an air funnel? What are its Implications in Planning? (10M)
(ii) Define development charge (5M)
- Q5. Write short notes on any FOUR of the following: (4x5= 20M)
- Distinguish DWF and WWF
 - How does Burgess Concentric model of 1925 recommend the location of airbase/airports?
 - Define viability gap fund
 - What is the ideal unit of planning with respect to Integrated Water Resources Management?
 - What is Green Bond Scheme?
 - Mention some of the factors to be considered while planning for Underground infrastructure.
