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B.E./B.Tech. (Full Time) DEGREE END SEMESTER EXAMINATIONS, NOV/DEC 2011

Geoinformatic Engineering

SEVENTH SEMESTER - (Regulation 2004)

GI 473 URBAN AND REGIONAL PLANNING

Time : 3 Hours

Maximum Marks: 100

Answer ALL questions

PART A – (10 X 2 = 20 marks)

1. What are the advantages of Urbanisation?
2. Define Urban Fringe.
3. Why do you required Trend Analysis in Urban Planning?
4. Write the concept of Regional Planning.
5. List various parameters considered in Layout Design.
6. What is Urban Renewal?
7. Classify Urban Roads.
8. Differentiate Geometric design of Railways from Highways.
9. List the objectives of Urban Management Information System.
10. Write the relationship between Housing and Transportation.

PART B – (5 X 16 = 80 marks)

- 11(a) (i) Classify Human Settlements. 4
- (ii) Define Urban Morphology. Explain the importance of Urban Morphology in Planning. 12
- 12(a) Explain the concept and procedure involved in development of Master Plan for Metropolitan City like Chennai. 16

(OR)

- (b) (i) Discuss the importance of Land Suitability Analysis in preparation of plans in 12

Urban Areas. Also describe the parameters used in land suitability analysis.

(ii) How do you delineate Planning Area for a Regional Plan. 4

13(a) Explain the different methods available for Slum Improvement Programs. 16
Discuss their relevance citing the suitable cases in Chennai City.

(OR)

(b) (i) Describe the parameters used in Urban Renewal Analysis. How are they 10
derived?

(ii) Discuss the importance of Site Analysis in Planning large housing projects. 6

14(a) Explain different steps involved in planning a Highway from Chennai to 16
Tiruchi. Describe different engineering surveys used to derive the final
alignment on ground.

(OR)

(b) (i) Discuss Rural Transport Network Analysis to be carried out to improve the 8
rural road connectivity.

(ii) Write short note on Geometric Design of Railways describing relevant codes. 8

15(a) What is a Decision Support System? Explain the step involved in 16
development of DSS for Urban Management.

(OR)

(b) (i) Differentiate Management Information System from Decision Support 5
System.

(ii) Describe the contents of a typical Management Information System for Urban 11
Transportation Network.