

Indian Institute of Technology Kharagpur

End Semester Examination

Session: 2011 – 12

Subject No: AR 52003

Subject Name: **Principles of Town Planning and Urban Design**

Final Year, B. Arch

Time: **3 hours**

Full Marks: **50**

Instructions: Special credit will be given on relevant, to the point answers with neat supportive sketches and personal observation.

1. Explain the concept of (i) Complementary area, (ii) Central Goods and Services and (iii) Centrality in context of Christaller's Central Place theory. Explain with sketches the structure proposed under this theory for (i) Marketing principle and (ii) Transportation principle. How are the 'k' values differing for these two principles? (10)

2. Highlighting the difference between a functional region and a formal region discuss the methods for delineating them. (10)

OR

Explain the basic principles of streetscape design? (10)

3. What are the four major categories of urban road? Explain their significance in town planning with appropriate sketches of their cross section. (10)

OR

Explain the process of Architectural and Urban Conservation. Also highlight the three types of Conservation Approach adopted by citing examples. (10)

4. Write short notes on (any Three) (3* 5 = 15)

- a. Concept of Netting and Silhouetting as explained by Gordon Cullen
- b. Effects of Primacy in the context of Settlement System planning
- c. Role of INTACH in Urban Conservation
- d. Importance of ULCRA in Land pooling for Urban Development
- e. Burgess theory of Land Use Planning

5. Explain the difference between range and threshold of goods and services? (5)