



**R-8025**

**First Year M. Arch. (Sem. I) Examination**

**May / June - 2010**

**C-103 : Land Use & Transportation Planning**

Time : 3 Hours]

[Total Marks : 100

**Instructions :**

(1)

नीचे दशांशवैल निशानीवाणी विगतो उत्तरवडी पर अवश्य दधवी. Fillup strictly the details of signs on your answer book.	Seat No. :
Name of the Examination :	<input type="text"/>
<input type="text" value="F.Y. M. ARCH. (SEM. 1)"/>	<input type="text"/>
Name of the Subject :	<input type="text"/>
<input type="text" value="C-103 : LAND USE &amp; TRANSPORTATION PLANNING"/>	<input type="text"/>
Subject Code No. : <input type="text" value="8"/> <input type="text" value="0"/> <input type="text" value="2"/> <input type="text" value="5"/>	<input type="text"/>
Section No. (1, 2.....) : <input type="text" value="NIL"/>	<input type="text"/>
	Student's Signature

- (2) Figures to the right indicate full marks.  
(3) Neat sketches or illustrations shall carry more credentials.

- 1 (a) Give definition or explain : (any five) **10**
- (i) Hoyt's Model
  - (ii) Urban land use
  - (iii) Methods of population studies
  - (iv) Colours code used in land use map
  - (v) Components of Development Plan
  - (vi) Multiple Nuclei Concept.
- (b) (i) RRT can handle \_\_\_\_\_ passengers/hr where as **10**  
LRT can serve \_\_\_\_\_ passengers/hr.
- (ii) Explain the term "modal split".
  - (iii) What is importance of 'R' value in regression analysis?
  - (iv) Name the trip distribution models.
  - (v) Explain basic industry in Lowry's model.
  - (vi) Define development potential factor in Hansen's model.
  - (vii) What is meant by condition diagram?
  - (viii) Metropolitan city has population
    - (a) more than 5 lac
    - (b) More than 40 lacs
    - (c) More than 1 million
  - (ix) Urbanization is a desired phenomenon ? - Comment.

- 2** Answer in detail :
- (a) Discuss the various elements of land use planning and its interrelation ship. **10**
  - (b) Explain the importance of Lowry Model in Transportation planning and discuss innovative ideas of the model. **10**
- OR**
- (b) Explain the urbanization process and characteristics in Indian context. **10**
- 3** Attempt any **two** : **30**
- (a) Various evolutionary theories of land use which influenced urban land use. Discuss Burgess model.
  - (b) Interrelationship of land use and city planning.
  - (c) Salient features of activity systems and urban land system.
  - (d) Land use planning process and its requirements.
- 4** Short notes any **five** : **30**
- (a) Explain the importance and application of Trip Assignment
  - (b) Explain Use of Logit Model
  - (c) Urban Intersections
  - (d) Traffic volume study
  - (e) Land use - transportation system
  - (f) OD Surveys
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