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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)

નીચે દર્શાવેલ 👉 નિશાનીવાળી વિગતો ઉત્તરવહી પર અવશ્ય લખવી.
Fillup strictly the details of 👉 **signs on your answer book.**
Name of the Examination :
👉 **F.Y. M. ARCH. (SEM. 1)**

Name of the Subject :
👉 **C-103 : LAND USE & TRANSPORTATION PLANNING**

👉 Subject Code No. : | **8** | **0** | **2** | **5** | 👉 Section No. (1, 2,.....) : | **NIL**

Seat No. :

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**

<div align="center">OR</div>

   (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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