

B.Arch. Examination, 2025

(4th Year, 2nd Semester)

INTRODUCTION TO URBAN & REGIONAL PLANNING

Full Marks:100

Time: 3 Hours

The figures in the margin indicate full marks

Question No.1 is compulsory and to answer any 5(five) from the remaining questions

Q1.

(a) Fill in the Blanks....

10

- i. For the governance of an area that is either an industrial town that is rapidly developing or an undeveloped town that does not meet the requirements for the formation of municipality a _____ is constituted.
- ii. Full form of GRIHA is _____.
- iii. Full form of AMRUT is _____.
- iv. The concept of Primate City was given by _____.
- v. The Town Planning scheme and design of Salt Lake City, Kolkata was done by architect _____.
- vi. "Make No Little plans" is a concept associated with _____ movement.
- vii. The Radiant City concept was proposed by _____.
- viii. Arrange the numerical value of Net Density, gross density and Town Density in ascending order _____.
- ix. Memphis was a city of _____ civilization.
- x. The City of Jaipur was designed based on _____ mandala.

(b)

- (i) Briefly highlight the relationship between conurbation and urban agglomeration. **05**
- (ii) Explain any two bottom up approach initiatives take by Govt. of India in planning and Development of ULB in India. **05**
- (iii) Briefly explain the concept and significance of ideal city by Vitruvius. **05**

Q2 Answer the following questions with necessary sketches if required. (5 x3=15)

(i) Briefly explain the concept of Ekistics by Doxiadus and its application in any one city.

(ii) Briefly explain the concept of Conservative Surgery as proposed by Patrick Geddes.

(iii) Briefly explain the City planning of Radburn, New Jersey.

[Turn over

Q3. Write short notes on: Any 3**(5 x3=15)**

- (i) Storm water Drainage
- (ii) Centuratio System
- (iii) City of Ur Babylon
- (iv) TOD concept in planning
- (v) Solid Waste Management

Q4. Differentiate between the following (any 3)**(5x3 =15)**

- (i) Broad Acre City (FLW) and La Ville Contemporaine (Le Corbusier)
- (ii) Roman City Planning and Greek City Planning
- (iii) Primate City and Rank Size Rule.
- (iv) Medieval city and Renaissance city planning
- (v) Use Zoning and Density Zoning

Q5. Explain the Following theories with necessary sketches and diagrams:**(5x3= 15)**

- (i) Concept of Central Place Theory.
- (ii) Von Thünen Theory for Agricultural Location.
- (iii) Webers theory of Industrial Location

Q6. Solve the following :

- (i) 50 ha of residential sector has 65% buildable area. The FAR of the buildable area is 1.5. Within the residential sector 60% of dwelling units are of 100 sqm each and 40% are of 80 qm each. The Gross residential density in dwelling units per hectare is. **05**

- (ii) The population for a Town is as given below **10**

1971 – 35284, 1981- 56909, 1991 –72105 , 2001- 132367, 2011 - 142405

Calculate the projected population for the year 2031 by the following method

1. By Incremental Increase Method
2. By Geometric Increase Method
3. By Arithmetic Increase Method

Q7. Make sketches for the following cities and conceptual ideas (any 5)**(5 x 3=15)**

- i. Garden City of Letchworth
- ii. City Plan of Chandigarh
- iii. Lutyens Delhi
- iv. Plan of city of jaipur
- v. Timgad city Plan
- vi. Plan of city of Kolkata
- vii. Salt Lake city Kolkata