

B.Arch. Examination, 2018

(5th Year, 1st Semester)

PRINCIPLES OF URBAN & RURAL PLANNING

Full Marks: 100

Time: Three Hours

The figures in the margin indicate full marks

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

Q1.

(a) Answer to any 10 questions (10 x 2 = 20)

- i. Explain the concept of TDR.
- ii. City Beautiful Movement and its planning interventions
- iii. What is Centuriatio System in Roman Town Planning?
- iv. Explain Cul de sac and its origin.
- v. Highlight the importance of Woonerf in planning.
- vi. Aesthetic Zoning and its importance
- vii. Explain the concept of Prastara city planning layout.
- viii. What is conurbation? Explain with a example.
- ix. Highlight the advantages of 15° tilt in Jaipur city planning.
- x. What do you mean by Landuse Planning ?
- xi. What is O-D survey and why is it required?

(b)

- i. Differentiate between Census town and Statutory Towns with examples from West Bengal 05

Q2. (i) Define the term neighbourhood. 02

(ii) Explain with sketches the conceptual models of Neighbourhood Planning by Clarence Perry and Engel Herdt. 08

(iii) Explain the importance of neighbourhood concept in sustainable development. 05

Q3.

(a) Differentiate between the following (any 5) (5x3 =15) 15

- (i) ECS and PCU
- (ii) Trip Generation and Trip distribution
- (iii) Net Density and Gross Density
- (iv) Garden cities & Satellite Towns
- (v) Social Infrastructure & Physical Infrastructure
- (vi) Concentric Zone theory and Radial Sector Theory

4. (a) Explain the importance of GRID type road layout in city planning with examples from various periods. 05
- (b) Explain the concept of TOD (Transit Oriented Development) and its importance in Sustainable Development. 05
- (c) What is urban agriculture? How is it done and what are its benefits. 05
-
5. (a) Explain the schemes HRIDAY and AMRUT and its role in Urban Planning? 06
- (b) Highlight and explain various Central Govt. Schemes for Rural Development in sectors of Housing, Roads and Slum improvement. 09
-
6. (a) Explain the planning concept of future urban structure proposed by Le Corbusier and Frank Lyod Wright. 10
- (b) Draw sections for either an Urban Collector Street or an Urban Arterial Street with proper labeling. 5
-
7. (a) Explain the water supply system and its various processes involved for the city of Kolkata. 5
- (b) Explain the solid waste management system for Kolkata and its current scenario. 5
- (C) Explain the power distribution system for Kolkata city and its demand supply scenario. 5
-
8. Make sketches for the following cities and conceptual ideas (any 5) (5 x 3=15) 15
- (a) City of UR
- (b) Jaipur city
- (c) Ideal city concept by Vitruvius
- (d) City of vidhyadhar nagar
- (e) Tel el Amorna
- (f) Gandhinagar
- (g) Bhubaneshwar city
-