

B.Arch. Examination, 2019
(4th Year, 2nd Semester)

INTRODUCTION TO URBAN & REGIONAL 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

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| 1 | (a) | (i) The basic unit for a rural area is _____ | |
| | | (ii) HRIDAY stands for _____ | |
| | | (iii) The sewerage is estimated at the rate of ___% of the water supply in an area. | |
| | | (iv) The Radburn concept proposed the idea of _____ | |
| | | (v) The city of Bhubaneshwar was designed by _____ | |
| | | (vi) The percentage range of residential area as per UDPFI in Metro cities is _____ | |
| | | (vii) Ekistics means _____ | |
| | | (viii) Islamabad city was designed by _____ | |
| | | (ix) Jaipur city is based on _____ mandala system | |
| | | (x) The KMC area for the city of kolkata is _____ Sq kms. | 10 |
| | (b) | (i) Census definition of a town. | 05 |
| | | (ii) Vastu Purusha Mandala and its town planning aspects | 05 |
| | | (iii) City Beautiful Movement and its planning interventions | 05 |
| 2. | (a) | Write short notes on : Any 5 (5 x3=15) | 15 |
| | | (i) Ideal city by Vitruvius | |
| | | (ii) TDR | |
| | | (iii) Centuratio System | |
| | | (iv) Charity Tourism and its various aspects. | |
| | | (v) Water supply Distribution system | |
| | | (vi) Eco city concept by Kishoi kurokawa | |
| 3. | (a) | Define the term neighbourhood. | 03 |
| | (b) | Explain with sketches the conceptual models of Neighbourhood Planning by Clarence Perry and Engel Herdt. | 06 |
| | (c) | Elaborate the V7 road system for the city of Chandigarh and its importance in neighbourhood planning. | 03 |
| | (d) | Highlight the importance of Woonerf in neighbourhood planning | 03 |

4. (a) Differentiate between the following (any 5) (5x3 =15) 15
- (i) Medieval and Renaissance city Planning
 - (ii) Roman City Planning and Greek City Planning
 - (iii) Development plan and Perspective Plan
 - (iv) Garden cities & Satellite Towns
 - (v) Social Infrastructure & Physical Infrastructure
 - (vi) Arterial street and Sub-Arterial street.
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5. (a) The population for a Town is as given below 10
- 1971 – 41062
 1981- 52596
 1991 –77936
 2001- 115483
- Calculate the projected population for the year 2021 by the following method
- (i) By Incremental Increase Method
 - (ii) By Geometric Increase Method
 - (iii) By Arithmetic Increase Method
- (b) Gross density of any area is 300 persons/ha. Net density of the same area is 450 person/ha. Total area of the site is 150 ha. What will be the area under Non-Residential? 5
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- 6 (a) Explain the various aspects of Green City mission in Kolkata. 05
- (b) Highlight and explain various Central Govt. Schemes for Rural Development in sectors of Housing, Roads and Slum improvement. 10
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7. (a) The Design principles of Vidhyadhar Nagar were borrowed from the city of Jaipur- Elaborate with sketches. 9
- (b) Explain the concept of Concentric zone theory and Radial sector theory. 6
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8. Make sketches for the following cities and conceptual ideas (any 5) (5 x 3=15) 15
- (a) City of UR
 - (b) Broad Acre city concept
 - (c) Kolkata city
 - (d) La Cite Industrielle by Tony Garnier
 - (e) Tel el Amorna
 - (f) City of Miletus
 - (g) Versailles