

**BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI
(END SEMESTER EXAMINATION)**

**CLASS: BARCH
BRANCH: ARCH.**

**SEMESTER : VIII
SESSION : SP/19**

**SUBJECT: AR8401 PRINCIPLES OF HUMAN SETTLEMENTS & URBAN DESIGN
TIME: 3.00 Hrs**

FULL MARKS: 60

INSTRUCTIONS:

1. The question paper contains 7 questions each of 12 marks and total 84 marks.
 2. Candidates may attempt any 5 questions maximum of 60 marks.
 3. The missing data, if any, may be assumed suitably.
 4. Before attempting the question paper, be sure that you have got the correct question paper.
 5. Tables/Data hand book/Graph paper etc. to be supplied to the candidates in the examination hall.
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- Q.1(a) What is an Agora how did it effect the planning of a Greek city? [2]
Q.1(b) Write about the various components of Renaissance town planning. [4]
Q.1(c) Explain the transformation of a Green town from Humble city to Classic city. [6]
- Q.2(a) Describe and sketch at least two types of settlement pattern as mentioned in ancient text and treaties of India. [2]
Q.2(b) Write about the town planning concept in Mohenjodaro. [4]
Q.2(c) What are the key features of urban planning in India? [6]
- Q.3(a) Mention the various concepts or theory given by : [2]
(i) Soria Y. Mata
(ii) Clarence Perry
(iii) C.A.Doxiadis
(iv) Clarence Stein and Henry Wright.
- Q.3(b) Name the book and the concept given by the following : [4]
(i) F.L.Wright
(ii) Kevin Lynch
(iii) Le Corbusier
(iv) Lewis Mumford
- Q.3(c) Explain in brief the planning principles followed in: [6]
(i) Gandhinagar
(ii) Islamabad
- Q.4(a) What is Urban Design? Differentiate between Architecture, Urban Design and urban planning. [2]
Q.4(b) What are the five elements of 'Imagibility' given by Kevin Lynch, explain. [4]
Q.4(c) What are the various objectives of urban design? Explain. [6]
- Q.5(a) Explain the various types of open spaces. [2]
Q.5(b) What is 'scale' in urban design? [4]
Q.5(c) What are the various classifications of urban square? Explain with sketches. [6]
- Q.6(a) What are the various elements considered in urban design? [2]
Q.6(b) What are the various techniques adopted for urban design projects? Explain any one of them. [4]
Q.6(c) Write short notes on: [6]
(i) Urban mass
(ii) Urban activity and circulation
(iii) Urban pattern
- Q.7(a) What are the various street furnitures used in urban design? [2]
Q.7(b) What are the various functions of Delhi Urban Arts Commission? [4]
Q.7(c) What is streetscape and its elements of urban design? [6]

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