MANIPAL ACADEMY OF HIGHER EDUCATION

FIFTH SEMESTER B. ARCH. DEGREE EXAMINATION – NOVEMBER 2019

SUBJECT: ARC-14-311 : PRINCIPLES OF URBAN DESIGN
(2014 SCHEME)

Friday, November 15, 2019

Time: 14:00 – 17:00 Hrs. Max. Marks: 50

- ✍ **Answer ANY FIVE full questions.**
- ✍ **Answer all parts of a question.**

1A. Explain the concept of custodianship and collaboration in urban design with examples.

1B. Illustrate and explain through sketches the needs, wants and wishes of users in a commercial street.

$$((2 \text{ marks} \times 2)+(2 \text{ marks} \times 3) = 10 \text{ marks})$$

2A. What is mental mapping? Explain its importance in urban studies.

2B. What is the main objective of Public participation in urban design?

2C. What is the difference between Top down and Bottom up approach in urban design?

$$((2+4)+2+2 = 10 \text{ marks})$$

3A. What is road hierarchy in urban transport? Explain the advantages of Grid pattern over Organic pattern in road network of a city.

3B. Explain a feeder system in a metropolitan city for encouraging sustainable transportation.

$$((2+4)+4 = 10 \text{ marks})$$

4A. What is Permeability study? Explain the role of permeability study in understanding of an urban context.

4B. **Explain any TWO of the following with example:**
   i) All-of-a-piece Urban Design
   ii) Piece-by-piece Urban Design
   iii) Plug-in Urban design

$$((2+3)+(2\frac{1}{2} \text{ marks} \times 2) = 10 \text{ marks})$$

5A. Explain the difference between garden city and satellite town.

5B. Explain the character of New Urbanism on Regional, Neighbourhood and Block level respectively.

$$(4+(2 \text{ marks} \times 3) = 10 \text{ marks})$$

6. Suggest five tactical urban design ideas through concepts and sketches for streets during festival in a city.

$$(2 \text{ marks} \times 5 = 10 \text{ marks})$$