

**M.E. ARCHITECTURE FIRST YEAR FIRST SEMESTER - 2024**

**URBAN AMENITIES**

**Time: 3 Hours**

**Full Marks: 100**

1. Describe the requirements for designing the roads to make the journey more pleasant. Describe the village road classification system in India. Draw the cross sections of an urban arterial street, urban sub-arterial street and urban collector street through residential areas. What are the devices and methods used for control of traffic? **(4+4+6+4=20)(CO1)**

2. Describe the essential elements required to design a 'walkable' street. How to create the places for societal interaction? Illustrate the importance of street furniture.

**(6+8+6=20) (CO2)**

Or, what are the benefits and threats of urban landscape? Illustrate the elements of urban landscape. What are the criteria for selecting the proper urban planting sites?

**(10+5+5=20) (CO2)**

3. State the sources of water and average domestic water consumption of an Indian city. Briefly describe the conventional treatment methods for public water supply and different system of distribution of water.

**(6+12=20) (CO3)**

4. What are the sources of Waste water? State the characteristics of waste water. Briefly describe the process of waste water management in any urban area.

**(6+6+8=20) (CO4)**

Or, What are the sources of solid waste? State the characteristics of solid waste. Briefly describe the process of efficient solid waste management in any urban area.

**(6+6+8=20) (CO4)**

5. Define Environmental Impact Assessment (EIA) and Strategic Environment Assessment (SEA). Describe the evolution of EIA in India and the steps of preparation of EIA. Illustrate the benefits of abiding the rules of EIA of any urban project.

**(4+8+8=20) (CO5)**