

**Roll No.**

**Total No. of Pages : 02**

**Total No. of Questions : 10**

**M.Planning (Sem.-1)**  
**INFRASTRUCTURE PLANNING-I**

**Subject Code : UC-MURP-106**

**M.Code : 77249**

**Date of Examination : 17-01-23**

**Time : 3 Hrs.**

**Max. Marks : 60**

**INSTRUCTIONS TO CANDIDATES :**

1. Attempt FIVE questions taking ONE from each UNIT.
2. All questions carry equal marks.

## UNIT-I

1. Highlight the objective and implication of policies and program in infrastructure planning. What are the major issues and concerns of maintaining the utilities and services?
2. What are the service level benchmarks? What are their importance and limitations? Also state various benchmarks for sanitation and sewerage in urban areas.

## UNIT-II

3. What are the roles, and responsibilities of physical planner in services and utilities planning? What are the major challenges faced by the urban centers in services and utilities planning?
4. Write a detailed note on storm water drainage and sewerage system for any city in Punjab.

## UNIT-III

5. Evaluate the levels of healthcare and educational institution in any district of Punjab as per URDPFI guidelines specifically in relation to population served by them.
6. How do public and community open spaces help in conservation of environment, health and wellbeing of the residents? What are the hierarchy of open spaces recommended by URDPFI guidelines?

#### **UNIT-IV**

7. What do you understand by transport demand management? How are mobility and accessibility related to the urban and rural road networks?
8. Explain the vicious cycle of congestion urban areas. What are the major causes and solution for the same?

#### **UNIT-V**

9. How does an automation system help in infrastructure management? Explain with examples.
10. Elaborate upon the components, frameworks and policies of the Union and State Government for smart energy and transportation infrastructure management.

**NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.**