

P P SAVANI UNIVERSITY

Fifth Semester of B. Tech. Examination
December 2021

SECV3551 Urban Planning

16.12.2021, Thursday

Time: 09:00 a.m. To 11:30 a.m.

Maximum Marks: 60

Instructions:

1. The question paper comprises of two sections.
2. Section I and II must be attempted in separate answer sheets.
3. Make suitable assumptions and draw neat figures wherever required.
4. Use of scientific calculator is allowed.

SECTION - I

- Q - 1 Explain the elements of Infrastructure. [05]
- Q - 2 (a) Explain various type of data required for planning process. [05]
- Q - 2 (b) Explain Resource analysis. [05]
- OR
- Q - 2 (b) Write down the importance and role of infrastructure. [05]
- Q - 3 (a) Explain TOD [05]
- Q - 3 (b) Describe any two issues of megacities. [05]
- Q - 4 Short note - Discuss linkages between urbanization and economic development. [05]
- or
- Short note - Quality of Life and infrastructure.

SECTION - II

- Q - 1 Answer the Following: (MCQ/Short Question/Fill in the Blanks) [05]
- (i) What do you mean by brackish water?
- (ii) Give full form of DEWATS.
- (iii) What do you mean by perennial river?
- (iv) What is TDS?
- (v) What is ESR?
- (vi) In water treatment, what is screening?
- (vii) What is general width of a carriageway in India in mts.?
- Q - 2 (a) Discuss surface water as an important source of water. [05]
- Q - 2 (b) What are water distribution losses? What are the reasons for the same? [05]
- OR
- Q - 2 (a) With help of neat diagram, explain water distribution network for an urban area. [05]
- Q - 2 (b) What is recycling of water? Discuss the concept. [05]
- Q - 3 (a) Critically discuss the groundwater as an important water source. [05]
- Q - 3 (b) What is replenishment of water? How does ground water replenishment occur naturally? [05]
- OR
- Q - 3 (a) With help of neat diagrams, in brief explain organic and grid iron growth pattern for an urban area. [05]
- Q - 3 (b) Short note - Zoning.
- Q - 4 Attempt any one/two. [05]
- (i) Explain the significance of geometric design of roads. [05]
- (ii) Using the official data, critically discuss the issue of road collisions in India.

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SECTION - I

- Q - 1 Answer the Following: (MCQ/Short Question/Fill in the Blanks) [05]
- (i) Population of India as per 2011 Census is _____ M.
 - (ii) Define Urban area.
 - (iii) Define Rural Area.
 - (iv) Define sustainable development.
 - (v) Center for performing arts is an example of which type of infrastructure?
 - (vi) Name anyone mega city in India.
 - (vii) What is accessibility in transportation engineering?
- Q - 2 (a) Using the population data from official source, discuss the challenges for an urban planner in India. [05]
- Q - 2 (b) What do you mean by social infrastructure? Discuss the significance of the same. [05]
- OR**
- Q - 2 (a) What is land use? Using neat diagram, explain the same with example of any one Indian city. [05]
- Q - 2 (b) Critically discuss the advantages of IT development in collection of data for urban infrastructure planning. [05]
- Q - 3 (a) Short note - Concept of sustainable development. [05]
- Q - 3 (b) Short note - Climate change its significance. [05]
- OR**
- Q - 3 (a) Short note - Transit Oriented Development. [05]
- Q - 3 (b) Short note - Importance of public participation in planning. [05]
- Q - 4 Attempt any one/two. [05]
- (i) Short note - Discuss linkages between urbanization and economic development.
 - (ii) Short note - Quality of Life and infrastructure.

SECTION - II

- Q - 1 Explain Sources of water. In detail [05]
- Q - 2 (a) Describe the various stages of water treatment plant. [05]
- Q - 2 (b) Explain DEWATS [05]
- Or
- Explain Storm water its need and data required for its design.
- Q - 3 (a) Compare various modes of transportation. [05]
- Q - 3 (b) Explain Concept of Accessibility and Mobility. [05]
- Q - 4 Enlist and explain any one method of O & D Study. [05]
- Or
- Explain Traffic Management.