

**Urban Planning**

P. Pages : 2

Time : Three Hours



**NIR/KW/18/3960**

Max. Marks : 80

- Notes :
1. All questions carry marks as indicated.
  2. Solve Question 1 OR Questions No. 2.
  3. Solve Question 3 OR Questions No. 4.
  4. Solve Question 5 OR Questions No. 6.
  5. Solve Question 7 OR Questions No. 8.
  6. Solve Question 9 OR Questions No. 10.
  7. Solve Question 11 OR Questions No. 12.
  8. Illustrate your answers whenever necessary with the help of neat sketches.

1. a) What are the complexities in urban planning? How does it affect the national development? **7**
- b) What do you mean by sustainable Development? Explain the factors that affects sustainable development. **6**

**OR**

2. Discuss in detail how Urbanization is leading to environmental degradation. **13**
3. What do you mean by regional linkage of a city or an urban area? Explain in detail with the help of a diagram. **13**

**OR**

4. a) Define fringe. How fringe is related to urban development? **7**
- b) Explain peripheral development. How does it take place? **6**
5. a) What should be the design strategy and approach to urban planning for regenerating inner cities? **7**
- b) Explain, diversity and unintended growth in urban areas. How does it affect the economic, social and environmental sustainability. **6**

**OR**

6. Why public awareness and participation is a key to sustainable development? What are the various methods and tools to aware public towards sustainable life style. **13**
7. Explain the process of Human settlement. What are the basic requirements of Human settlement? **13**

**OR**

8. What are the Impacts of Human settlement planning on metro and Mega city development? **13**

9. Explain in detail the different types of underground development. How it is helpful in betterment of an urban area. 14

**OR**

10. Write short notes on: 14

- i) Metro Rail
- ii) Tunnels
- iii) Market complexes
- iv) Safety Aspects of underground development.

11. a) Draw flowsheet of conventional water treatment plant. Explain in brief the working of each unit. 7

b) Explain in detail Dead end system and grid iron system. 7

**OR**

12. a) Explain the methods of disposal of sewage effluents. 7

b) Explain in detail the various types of joints used in water carriage system. 7

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