

UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

End Semester Examination, December 2017

Program: M. Plan, School of Planning & Architecture

Semester – 1st

Subject (Course): Planning Techniques

Course Code: MPLC 721

No. of page/s: 2

Max. Marks : 100

Duration : 3 Hrs

SECTION-A (5×4 =20 Marks)

Attempt all questions

Q1. Discuss the following:

- a. Density
- b. FAR
- c. Mass and void
- d. Skyline

- 4 marks

Q2. Differentiate between norms, standards, guidelines, bills and acts.

- 4 marks

Q3. Define a map, base map, key map and sectional map.

- 4 marks

Q4. Differentiate between an urban area and a rural area as per census of India?

- 4 marks

Q5. What is Rank Size rule by George Zipf?

-4 marks

SECTION-B (4×10 =40 Marks)

Attempt all questions, where as anyone in case of Q No. 9

Q6. Silver Heights Residential Colony has the following facilities: -

-10 marks

- i) Community General Shopping Area = 1150 m sq
- ii) Tot-lot= 650 m sq
- iii) Play School= 2200 m sq
- iv) Primary School= 4000 m sq
- v) Colony Roads= 600 m sq

If residential area of the Colony is 12500 m sq, Calculate the net residential area.

Q7. What is a land use and explain its relationship with circulation? Also, describe various scales of maps/ plans.

- 10 marks



Q8. Explain the emergence of Urban and Regional Planning in India. **-10 marks**

Q9. a. Explain the following w.r.t. Walter Christaller's Central Place theory:- **-10 marks**

- i. K-3 principle
- ii. K-4 principle
- iii. K-7 principle

OR

b. Define the following:- **-10 marks**

- i. Gross Density
- ii. Data
- iii. Database
- iv. Society
- v. Spatial Planning

SECTION-C (2×20 =40 Marks)

Attempt all, except any one, in case of Q10

Q10. a) Explain the issues of Urban/ Metropolitan concentration and how can you resolve them as an urban and regional planner? **-20 marks**

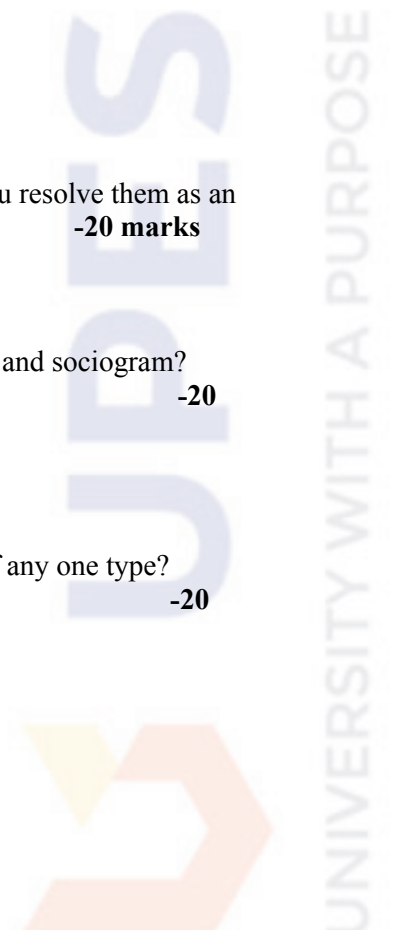
OR

b) What do you understand by hierarchy of settlements, nesting, scalogram and sociogram? **-20**

marks

Q11. What are the various types of Region and discuss the delineation process of any one type? **-20**

marks



Roll No: -----



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SECTION-A (5×4 =20 Marks)

Attempt all questions

Q1. What is a base map and what are the contents?

- 4 marks

Q2. With the help of suitable diagram explain data, information, database, analysis and proposal.

marks

- 4

Q3. What are the different types of data and information to be collected in planning?

- 4 marks

Q4. What is the need for spatial standards?

- 4 marks

Q5. Explain the following: -

-4 marks

- a. Urban sprawl
- b. Urban typonomy
- c. Social infrastructure
- d. Primary sector occupation

SECTION-B (4x10 =40 Marks)

Attempt all questions, where as anyone in case of Q No. 9

Q6. Define landuse and explain its nine fold classification? Describe its various analysis. -10 marks

Q7. Explain Law of primacy and Rank Size rule.

- 10 marks

Q8. What is central place theory?

-10 marks

Q9. a. How does scalogram helps in regional planning?

-10 marks

OR

- c. Explain the analysis to carry development, if any urban area has reached its threshold?
-10 marks

SECTION-C (2×20 =40 Marks)

Attempt all, except any one in case of Q10

- Q10. a) What are the various types of Region and discuss the delineation process of any one type?**
-20 marks

OR

- b. b) Define the following:-** **-20 marks**
- i. Net Density
 - ii. Data
 - iii. Database
 - iv. Society
 - v. Spatial Planning
 - vi. Size of settlements
 - vii. Sphere of influence
 - viii. FAR
 - ix. Catchment area analysis
 - x. Redundant data & information

- Q11. Explain the issues of Urban/ Metropolitan concentration and how can you resolve them as an urban and regional planner?** **-20 marks**

