

Name:

Enrolment No:



UNIVERSITY OF PETROLEUM AND ENERGY STUDIES
End Semester Examination, April/May 2018

Course: Techniques of Planning-I
Program: B. Plan
Time: 03 hrs.

Semester: II

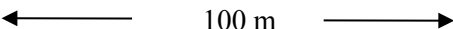
Max. Marks: 100

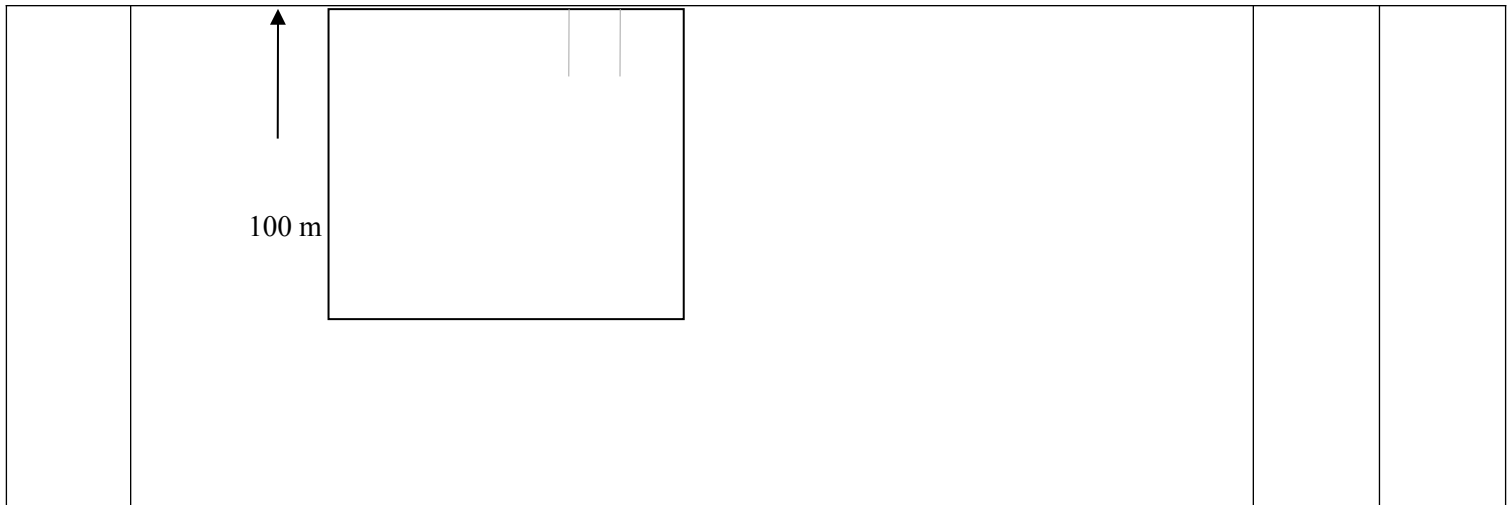
Instructions: Attempt all questions where as anyone in case of Q No. 9 and Q No. 11

SECTION A (05×04 =20 Marks)

S. No.		Marks	CO
Q 1	How data and information are classified based on their availability and sources?	04	CO3
Q 2	Differentiate between a map, a base map and a key map.	04	CO3
Q 3	Describe the following abbreviation or units used in planning: a. D.U. b. SOI c. PSP d. pph	04	CO2
Q 4	What is analysis and how is it different from data presentation?	04	CO4
Q 5	Differentiate between scales used on a map whereas scales used to design questionnaire.	04	CO1

SECTION B (04x10 =40 Marks)

Q 6	What is a questionnaire? Compare, closed-ended question vs open-ended questions to design a questionnaire?	10	CO4
Q 7	Define sampling, explain the four sampling methods used in planning?	10	CO2
Q 8	Briefly, explain the following: i) Building bulk ii) Building height iii) Building style iv) Mass and void v) Skyline	10	CO1
Q 9	a) Differentiate between a structured interview and an unstructured interview. OR b) Calculate the Ground Coverage (G.C.) and FAR for the following, four dwelling units (detached) are of three storied where each D.U. is of 250 sq m. 	10	CO3



SECTION-C (20×2 =40 Marks)

Q 10	a) Describe the following? i) Density ii) Dwelling Unit Density iii) Accommodation Density iv) Population Density v) Occupancy Rate	20	CO4
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Q 11	a) Define model and describe their classifications? Also, give its advantage and disadvantages. <p align="center">OR</p> b) Calculate net density (in pph) of Green Park Residential area, with following facilities: -	20	CO4																										
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 70%;">Facilities</th> <th style="width: 30%;">Area (sq. m)</th> </tr> </thead> <tbody> <tr><td>(i) Convenient shopping Centre</td><td>60000</td></tr> <tr><td>(ii) Local shopping Centre</td><td>36000</td></tr> <tr><td>(iii) Parks</td><td>16000</td></tr> <tr><td>(iv) Playground</td><td>20000</td></tr> <tr><td>(v) Temples, Mosque</td><td>4000</td></tr> <tr><td>(vi) Primary school</td><td>20000</td></tr> <tr><td>(vii) Secondary school</td><td>32000</td></tr> <tr><td>(viii) Local Road</td><td>12000</td></tr> <tr><td>(ix) Secondary road</td><td>4000</td></tr> <tr><td>(x) Overhead tank</td><td>8000</td></tr> <tr><td>(xi) Electric sub-station</td><td>16000</td></tr> <tr><td>(xii) Water body</td><td>16000</td></tr> </tbody> </table>				Facilities	Area (sq. m)	(i) Convenient shopping Centre	60000	(ii) Local shopping Centre	36000	(iii) Parks	16000	(iv) Playground	20000	(v) Temples, Mosque	4000	(vi) Primary school	20000	(vii) Secondary school	32000	(viii) Local Road	12000	(ix) Secondary road	4000	(x) Overhead tank	8000	(xi) Electric sub-station	16000	(xii) Water body	16000
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Total area of Green Park Colony is 40 Ha, with population of 10,000 persons.																													

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	1	District Centre	80		
	2	Residential shops	15		
	3	Electric Sub-station	50		
	4	Roads	20		
	5	Plotted Housing	30		
	6	Retail Shopping	15		
	7	Sport Ground	40		
	8	Water treatment Plant	30		
	9	Residential streets	15		
	10	High School	5		
	11	Group Housing	50		
	12	Transport Nagar	30		
	13	Warehouse	25		
	14	Night Shelter	5		
	15	Wholesale	15		
	16	Employees Housing	25		
	17	Neighborhood Park	10		
	18	Water Body & Others	40		
Q 11	a) Describe the following? i) Density ii) Dwelling Unit Density iii) Accommodation Density iv) Population Density v) Occupancy Rate OR b.) Based on the figures and information as provided in question 10 of section-C, compute a land use table and calculate percentage composition of land area under various uses for the city.			20	CO4