

**Iqra National University**  
**Department of Civil Engineering**  
**Mid-Term Examination- 2020**

**Course Title: Transportation Planning and Management**

**Total Marks: 30**

**Instructor: M.Majid Naeem**

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**Note: Attempt all questions.**

**Q1:** What is planning; briefly describe the studies carried out in the scope of transportation planning strategies in their modeling with assumptions & limitations. Present your answer in the form of a formal technical report? (10)

**Q2:** What activities are exercised in planning for a four step conventional transportation modeling, discuss in detail with reference to different zonal productions and attractions attributes? (10)

**Q3:** The settle area of KPK is being divided into different districts. Few of them are as 1.Peshawar, 2.Charsadda, 3.Mardan, 4.Nowshera, 5.Swabi, 6.Abbottabad, 7.Kohat. Consider each district an independent zone having attributes of area as given in table below. Calculate the trips generation and attractions of each zone. Comments on your answer (Marks=10)

Land Use Category	Area (ha)							
	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 6	Zone 7	
Residential	7740	24900	17064	40204	29317	576416	53445	
Commercial	Retail	6972	5688	26220	6172	126091	15270	1290
	Wholesale	14940	10744	20976	7715	90065	7635	1935
	Services	5976	2528	1748	6172	162117	10180	1720
Manufacturing	1290	4980	1264	1748	4629	36026	12725	
Transportation	1935	8964	5688	5244	4629	90065	10180	
Public Buildings	2580	9960	4424	6992	3086	252182	30540	
Public Open Space	3010	22908	15800	71668	92580	468338	114525	

Reference Material:

1. Class Lectures/Presentations
2. Engineering Transportation Engineering & Planning by Papacostas
3. Transportation Engineering by C Jotin Khisty & B. Kent Lall