


Name:	 UPES UNIVERSITY WITH A PURPOSE
Enrolment No:	

UNIVERSITY OF PETROLEUM AND ENERGY STUDIES
End Semester Examination, May 2019

Course: Traffic and Transport Planning - II	Semester: 4
Program: Bachelor in Planning	Time 03 hrs.
Course Code: SPTP 2001	Max. Marks: 100
Nos. of page(s): 2	
Instructions: Mobiles, Laptops, Tablets, Books & Notes are not allowed in exam room.	

SECTION A

S. No.		Marks	CO
Q 1	What do you understand by mobility and commuting for targeted groups? Discuss about the challenges faced by these groups in day to day commute. Support the answer with examples/sketches/graphs.	4	CO1
Q 2	What do you understand about the Noise Pollution and it's causes? Discuss about the factors affecting it and abatement measures for same. Support the answer with examples/sketches/graphs.	4	CO1
Q 3	What do you understand by Accessibility in urban transport? Explain and discuss various components of accessibility for users. Support the answer with examples/sketches/graphs.	4	CO2
Q 4	Explain the Economic Appraisal and Indirect Cost in Urban Transport Systems/projects. Support the answer with examples/sketches/graphs.	4	CO2
Q 5	Discuss the concept and components of Multi-Modal Integration with respect to urban transport facilities. What are the benefits for end users? Support the answer with examples/sketches/graphs.	4	CO1

SECTION B

Q 6	“TOD increases densities and places high-rises along the transit corridors to accommodate a wide variety of uses. It is an ideal tool for governments to address inclusivity by citing minimum caps for housing for various segments.” Discuss about the design, diversity, density, accessibility and housing with respect to the Kochi TOD project. Support the answer with examples/sketches/graphs.	10	CO1
Q 7	Discuss about UMTA and SPV in urban transportation. What is their importance, roles and responsibilities in development of urban transport projects with respect to the urban local bodies? Support the answer with examples/sketches/graphs.	10	CO2
Q 8	Discuss about the concept of Value of Travel Time? A corporate executive works in a technical team and earns a salary of Rs 10, 45, 000/-per month. During one-week day (day time) he decides to go to purchase some grocery items of value Rs 25000/- from a nearby shopping mall. During to and fro journeys, he sticks to traffic jam for	10	CO2

	2 hr 25 min and 1 hr and 45 min respectively and spend 75 minutes in shopping mall. He also spends 48 minutes for his vehicle breakdown during return. Calculate the value (in Rs) of money, he lost during whole trip. One day includes 8.5 hrs as working hours, one month is 30 days. Take all other necessary assumptions.		
Q 9	<p>Illustrate and discuss about the Landscaping, need of landscaping, components of landscaping and its benefits in urban infrastructure facilities. Support the answer with examples/sketches/graphs.</p> <p style="text-align: center;">OR</p> <p>Illustrate and discuss the Land Use and Transport Cycle. Interpret and define each component of Land Use Transport cycle in detail with respect to the relationships. Discuss and elaborate the case studies of Delhi with respect to land use and transportation. Support the answer with examples/sketches/graphs.</p>	10	CO1
SECTION-C			
Q 10	<p>“Transit Oriented Development, also known as TOD, is the exciting fast-growing trend in creating vibrant, livable, sustainable communities. It's the creation of compact, walkable, pedestrian-oriented, mixed-use communities centered around high-quality train systems. This makes it possible to live a lower-stress life without complete dependence on a car for mobility and survival.” Discuss, review and do the critical appraisal of the above statement. Discuss about the factors driving the trends of TOD in urban context. Elaborate on the components and benefits of TOD with respect to our day to day commuting behavior. Support your answer with examples, graphs/sketches/charts. Citing cases/examples would be appreciated.</p>	20	CO1
Q 11	<p>“Traffic Engineering, Junction Design & Improvement, Traffic Management, Road Safety and Accident Reduction play a critical role in overall improvement of urban mobility. As part of the policy preparation, guidelines, toolkits and training module development, it should be of prime importance.” Discuss, review and do the critical appraisal of the above statement. Explain about the factors impacting the above integral parts of urban transportation. Elaborate on the benefits of each individual component for the end users i.e. urban mobility users with respect to the current scenario. Support your answer with examples, graphs/sketches/charts. Citing cases/examples would be appreciated.</p> <p style="text-align: center;">OR</p> <p>“A comprehensive mobility plan (CMP) of any city presents a strategy for short-, medium-, and long-term investments to improve accessibility and mobility for its residents. The CMP will be a key document to justify and support transport proposals of the city, to the Central Government and multilateral funding agencies.” Discuss, review and do the critical appraisal of the above statement. Illustrate the SLB and Mobility Improvement Measures in urban transport as part of CMP document.</p> <p>Support your answer with examples, graphs/sketches/charts. Citing cases/examples would be appreciated.</p>	20	CO2

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SECTION A

S. No.		Marks	CO
Q 1	Discuss about the critical role of 4 Stage Transport Modelling in developing the transport proposals in a CMP document. Support the answer with examples/sketches/graphs.	4	CO2
Q 2	Discuss the concept and components of Multi-Modal Integration with respect to urban transport facilities. What are the benefits for end users? Support the answer with examples/sketches/graphs.	4	CO1
Q 3	Explain the Economic Appraisal and Indirect Cost in Urban Transport Systems/projects. Support the answer with examples/sketches/graphs.	4	CO2
Q 4	What do you understand about the Noise Pollution and it's causes? Discuss about the factors affecting it and abatement measures for same. Support the answer with examples/sketches/graphs.	4	CO1
Q 5	Discuss about the street lighting requirement parameters and street lighting components. Support the answer with examples/sketches/graphs.	4	CO1

SECTION B

Q 6	Discuss about the concept of Value of Travel Time? A corporate executive works in a technical team and earns a salary of Rs 15, 00, 000/-per month. During one-week day (day time) he decides to go to purchase some grocery items of value Rs 55000/- from a nearby shopping mall. During to and fro journeys, he sticks to traffic jam for 2 hr 25 min and 1 hr and 50 min respectively and spend 80 minutes in shopping mall. He also spends 48 minutes for his vehicle breakdown during return. Calculate the value (in Rs) of money, he lost during whole trip. One day includes 8.0 hrs as working hours, one month is 30 days. Take all other necessary assumptions.	10	CO2
Q 7	Discuss about UMTA and SPV in urban transportation. What is their importance, roles and responsibilities in development of urban transport projects with respect to the urban local bodies? Support the answer with examples/sketches/graphs.	10	CO1

Q 8	What do you understand by Direct Cost and Indirect Cost for users in Transportation? Discuss the major components of both. How these costs are play an important role in defining the fare structure of any public transport system? Support the answer with examples/sketches/graphs.	10	CO2
Q 9	Illustrate and discuss about the Landscaping, need of landscaping, components of landscaping and it's benefits in urban infrastructure facilities. Support the answer with examples/sketches/graphs. OR Discuss the various shapes and patterns of urban areas/cities. Illustrate the development and physical sprawl of Chandigarh, Ahmedabad and Navi Mumbai. Explain the characteristics. Support your answer with examples.	10	CO1
SECTION-C			
Q 10	“Traffic Engineering, Junction Design & Improvement, Traffic Management, Road Safety and Accident Reduction play a critical role in overall improvement of urban mobility. As part of the policy preparation, guidelines, toolkits and training module development, it should be of prime importance.” Discuss, review and do the critical appraisal of the above statement. Explain about the factors impacting the above integral parts of urban transportation. Elaborate on the benefits of each individual component for the end users i.e. urban mobility users with respect to the current scenario. Support your answer with examples, graphs/sketches/charts. Citing cases/examples would be appreciated.	20	CO2
Q 11	“Transit Oriented Development, also known as TOD, is the exciting fast-growing trend in creating vibrant, livable, sustainable communities. It's the creation of compact, walkable, pedestrian-oriented, mixed-use communities centered around high-quality train systems. This makes it possible to live a lower-stress life without complete dependence on a car for mobility and survival.” Discuss, review and do the critical appraisal of the above statement. Discuss about the factors driving the trends of TOD in urban context. Elaborate on the components and benefits of TOD with respect to our day to day commuting behavior. Support your answer with examples, graphs/sketches/charts. Citing cases/examples would be appreciated. OR What do you understand by the concept of Transit Oriented Development (TOD)? Explain and discuss the importance of TOD in urban development scenario. What is the basic difference between Transit Oriented Development (TOD) and Development Oriented Transit (DOT)? Discuss about the components and factors driving the TOD in Indian cities. With respect to the components, in summary, discuss the benefits of TOD in urban environment. Support the answer with examples/sketches/graphs.	20	CO1