

Name:	
Enrolment No:	

UNIVERSITY OF PETROLEUM AND ENERGY STUDIES
Online End Semester Examination, December 2020

Programme Name: Bachelor of Planning	Semester : VII
Course Name : Infrastructure Planning, Development and Management	Time : 03 hrs
Course Code : SPCC4007	Max. Marks : 100
Nos. of page(s) : 02	

SECTION A

1. Each Question carries 5 Marks
2. Instruction: Complete the statement / Select the correct answer(s)

S. No.		Marks	CO
Q 1	Four important factors responsible for change in population are _____, _____, _____ and _____.	5	CO1
Q 2	As a part of basic layout of a sewage system, following five components are _____, _____, _____ and _____.	5	CO1
Q 3	Five types of water-based fire suppression system are following: _____, _____, _____, _____ and _____.	5	CO1
Q 4	Five different shapes of cross-sections of Sewer Pipes are _____, _____, _____, _____ and _____.	5	CO1
Q 5	The four characteristics of a modern-day urban infrastructure are _____, _____, _____, and _____.	5	CO2
Q6	The regional development plan has following components as major constituents _____, _____, _____, _____ and _____.	5	CO3

SECTION B

1. Each question carries 10 marks.
2. Instruction: Write short / brief notes and draw neat diagrams.

Q 7	Explain the criteria for water source selection along with the sources of public water supply.	10	CO1
Q 8	Differentiate between the basic functioning and constituent process of Primary and Secondary Treatment of an urban municipal sewage.	10	CO1

Q 9	Mention four important measures for fire protection planning. List down important benefits of a citizen's online portal for urban electrification services.	10	CO1
Q 10	Explain the important reasons how infrastructure development can be a primary measure to alleviate poverty?	10	CO3
Q 11	Discuss the importance of social sectors and economic sectors in regional infrastructure development.	10	CO3
SECTION-C			
<p>1. Each question carries 20 marks</p> <p>2. Instruction: Write detailed notes.</p>			
Q 12	<p>List down and explain the key elements of integrated planning and their importance in holistic regional development.</p> <p style="text-align: center;"><u>OR</u></p> <p>Differentiate between different planning and programming approaches for creation and development of regional infrastructure and networks.</p>	20	CO2