


Name:	
Enrolment No:	

UNIVERSITY OF PETROLEUM AND ENERGY STUDIES
End Term Examination – December 2023

Program: B. Tech APE (Gas)
Course: Introduction to City Gas Distribution (CGD)
Code: CHGS 3024
Max Marks :100

Semester: V
Time: 03 hrs.

SECTION A (4x5=20)

S. No.	Short Notes	Marks	CO
1	List applications of natural gas in electricity generation	4	CO1
2	Explain the selection criteria for materials used in city gas distribution	4	CO3
3	Provide classification of CNG stations with block diagram.	4	CO2
4	Enumerate the essential components incorporated within the emergency plan for CGD	4	CO4
5	Construct a flowchart illustrating the sequential procedural steps integral to the bidding process.	4	CO5

SECTION B (10x4=40)

6	Develop a comprehensive disaster management plan for CGD, outlining the key strategies, procedures, and resources required to mitigate, respond to, and recover from potential disasters or emergencies	10	CO5
7	Elaborate on the applications of natural gas in industrial sector, including the technology, efficiency, and environmental impacts.	10	CO1
8	Discuss and analyze the criteria and best practices for selection of entity by PNGRB for operating and maintaining CGD networks.	10	CO4
9	Provide a detailed explanation of the IT innovations and advancements utilized in City Gas Distribution (CGD).	10	CO5

SECTION-C (20x2=40)

10	Describe the PNG infrastructure, highlighting its key components and their interrelationships.	20	CO2
11	Illustrate meters employed in CGD including their types, functions, and technological aspects.	20	CO3