Roll No: | | | | | | | | | | | |

GAIN MORE KNOWLEDGE
REACH GREATER HEIGHTS

PRESIDENCY UNIVERSITY

Presidency University Act, 2013 of the Karnataka Act No. 41 of 2013 | Established under Section 2(f) of UGC Act, 1956
Approved by AICTE, New Delhi | Approved By BCI
Bengaluru

Mid Term Examinations - October 2026

Date: 06/10/2026 **Time:** 09:30 AM - 11:00 AM

Course Code: PET2029 **Course Name:** Quality Management Practices in Oil and Gas Industry

Semester: Seventh Semester **Max. Marks:** 50 **Weightage:** 50%

CO - Levels	CO1	CO2	CO3	CO4
Marks	22	22	24	22

PART A: Answer Following Questions. 10 M

Q.N.	Questions	M	CO	BT
1	Describe the meaning of project management.	2	CO1	BT2
2	Identify the common problems that cause schedule delays in a project.	2	CO2	BT2
3	State the major challenges involved in resource hiring.	2	CO3	BT1
4	List the different types of project organization.	2	CO3	BT1
5	Outline the main stages of the tendering process.	2	CO4	BT1

PARTB: Answer Any 1 Following Questions. 20 M

Q.N.	Questions	M	CO	BT
06.A	Compute the Net Present Value (NPV) of the proposed business using a discount rate of 10% and explain whether the business should be started based on the calculated NPV. Given: • Initial investment = $80,000 • Year 1: Revenue = $30,000; Maintenance = $10,000 • Year 2: Revenue = $60,000; Maintenance = $15,000 • Years 3–5: Net cash flow = $40,000 per year Discount rate = 10%	10	CO1	BT2
06.B	A construction company has been awarded a contract to build a commercial complex. The project involves multiple activities such as site preparation, foundation work, structural construction, electrical and plumbing installations, and finishing. The management wants to ensure that the project is completed on time while avoiding delays and cost overruns. As the project manager, apply appropriate project scheduling methods to prepare an effective time schedule for the commercial complex. Demonstrate how the selected methods can be used to sequence and coordinate the different activities.	10	CO2	BT3
07.A	A and B are playing two different games. A throw a dice and earns $20,000 if an even number appears; otherwise, A loses $5,000. B tosses two coins simultaneously and earns $20,000 if heads appear on both coins; otherwise, B loses $6,000. Compare the probabilities of winning for A and B and explain which game involves a higher probability of loss. Based on the comparison, describe the risk associated with each game.	10	CO1	BT2

PTO (Please Turn Over)

07.B	Apply your knowledge of project management to examine the factors that influence the speed and efficiency of project activities. Illustrate your answer with suitable examples from an oil and gas project.	10	CO2	BT3

PARTC: Answer Any 1 Following Questions. 20 M				
Q.N.	**Questions**	**M**	**CO**	**BT**
08.A	An oil and gas company is planning a six-month drilling project. Describe the Resource Hiring Process that the company should follow and explain the purpose of each stage in the process and relate it to the given drilling project.	10	CO3	BT2
08.B	An oil and gas company is preparing to start a new drilling project and needs to recruit two drilling engineers and three drilling technicians. Apply the recruitment process to the above drilling project. Prepare a suitable sequence of recruitment activities from identifying the manpower requirement to mobilization and illustrate how each stage can be used to recruit the required drilling personnel.	10	CO4	BT3
09.A	Describe the role of project organization in managing project activities. Explain how decision-making authority, task responsibility, and accountability for project outcomes are distributed among project members and distinguish between these three concepts with suitable examples.	10	CO3	BT2
09.B	An oil and gas company proposes to construct a new storage tank facility at an existing production site, with an estimated project cost of ₹8 crore. The company intends to select a qualified contractor through a transparent tendering process. Apply the tendering process to this project and prepare a sequential procedure from identification of the project requirement to the final selection of the contractor. Illustrate the activities involved at each stage of the tendering process.	10	CO4	BT3