

UNIVERSITY WITH A PURPOSE

UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

End Semester Examination, December 2021

Course: Oil and Gas Informatics Program: B.Tech-GIE Course Code: CSOG4003P Semester: VII Time: 03 hrs. Max. Marks: 100

Instructions: all questions are compulsory

	SECTION A	(5Qx 4M = 2)	0 Marks)
S. No.	Write short notes on the following [30-40 words]	Marks	СО
Q 1	Differentiate between knowledge & Information.	4	CO1
Q2	Identify the working principle of GPS.	4	CO1
Q3	Explain the working principle of Gravimeter.	4	CO2
Q4	Identify the different types of faults.	4	CO3
Q5	Innumerate are the different types of rocks.	4	CO2
	SECTION B	(4Qx10M = 40)	Marks)
	All questions are compulsory. Q9 has internal option [100-150 words]	Marks	CO
Q6	Elaborate on architecture of PLC.	10	CO3
Q7	Differentiate between magnetometer and gravimeter.	10	CO2
Q8	Identify the application areas of GIS in E&P process.	10	CO4
Q9	Explain in detail the architecture of SCADA. OR Explain the block diagram of SCADA software architecture.	10	CO4
	SECTION-C	$(2Qx\ 20M=40)$	0 Marks)
	Q10 is compulsory and choose any 1 question from Q11 [200+ words]	Marks	СО
Q 10	Enumerate and Analyze the different application of GIS in Oil and Gas industry.	5+15	CO5
Q11	Analyze in detail how SCADA is applied in Upstream & Downstream sector. OR Identify & Explain the working principle of an antenna.	20	CO5