

UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

End Semester Examination, December 2021

Course : Sub Sea Production System
Program : Applied Petroleum Engineering (Upstream)
Course Code : PEAU4020P
Nos. of page(s) : 01

Semester : 7th
Time : 03 hrs
Max. Marks : 100

Instructions: Attempt all the questions.

SECTION A

S. No.	Statement of questions	Marks	CO
Q 1	Classify the stand-alone facilities for subsea production system.	4	CO1
Q 2	Discuss we select clustered satellite wells over spaced satellite wells.	4	CO1
Q 3	Write the importance of flying leads used in subsea production system.	4	CO1
Q 4	Explain the ROV and AUV and write the importance of them.	4	CO2
Q 5	Write the expenditures include in CAPEX and OPEX.	4	CO2

SECTION B

Q 6	Elaborate multiple quick connects (MQCs) are important for subsea production system. Write the reasons.	10	CO3
Q 7	Explain the offshore soil investigation equipment in detail.	10	CO3
Q 8	Discuss the transducers and sensors are used in a subsea production system.	10	CO4
Q 9	Listed and explain the fundamental control system used in subsea production system.	10	CO4

SECTION-C

Q 10	Drilling vessels are mainly designed for drilling activities, but they are also used for the subsea production system (SPS) installation. Listed and explain them with the help of suitable diagram.	20	CO3
Q 11	Elaborate the different type of cost estimating methods and what are the factors applied to all subsea cost estimation activities.	20	CO4