Name:

Enrolment No:



UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

End Semester Examination, December 2021.

Programme Name: B. Tech (ECE) Semester : VII

Course Name : Broadband Access Technology Time : 03hrs Course Code : ECEG 3005 Max. Marks : 100

Nos. of page(s): 01

Instructions: All Questions are Compulsory.

SECTION A

S. No.		Marks	CO
Q 1	Describe in detail direct Broadcast services.	4	CO4
Q 2	Describe various types of DSL.	4	CO2
Q 3	Compare FTTH, FTTB, FTTC.	4	CO3
Q4	Compare telephone modem, cable modem and Wireless access modem.	4	CO1
Q5.	Describe various wireless standards.	4	CO1
SECTION –B			
Q6	Draw the circuit diagram realization for generation of 34 Mb/s data from base rate (2Mb/s).	10	CO1
Q7	Explain in detail DSL transmission techniques.	10	CO2
Q8	Describe with neat sketch LMDS and MMDS.	10	CO4
Q9	Explain in detail DOCSIS MAC upstream and downstream transmission frame structure.	10	соз
SECTION -C			
010		20	G02
Q10	Explain in detail DOCSIS TDMA downstream and SCDMA upstream transmission.	20	CO3
Q11	Explain various types of cross talks and how signal transmission can be improved in DSL technologies through filters. Compare FEC of DSL with that of DOCSIS.	20	CO2.