UNIVERSITY OF PETROLEUM AND ENERGY STUDIES
End Semester Examination, December 2023

Course: Security in Mobile
Program: B.Tech. CSE-All
Course Code: CSMC4002P

Semester: VII
Time: 03 hrs.
Marks: 100

Instructions: Attempt all questions.

SECTION A
(5Qx4M=20Marks)

S. No.		Marks	CO
Q 1	Define Activity in android.	4	CO1
Q 2	Define authentication. Provide suitable example.	4	CO2
Q 3	Differentiate between symmetric encryption and asymmetric encryption. Provide suitable example.	4	CO3
Q 4	Discuss the applications of WSN.	4	CO4
Q 5	Write any four features of iOS operating system.	4	CO1

SECTION B
(4Qx10M= 40 Marks)

Q 6	Draw and explain the architecture of iOS.	10	CO2
Q 7	Illustrate the concept of RSA encryption algorithm. Explain all the steps of RSA with suitable example.	10	CO3
Q 8	Demonstrate the concept of web based threats with example. Show how the web threats work. Or Demonstrate the concept of network based threats. Discuss any 4 network based threats.	10	CO4
Q 9	List out the differences between SSL and TLS.	10	CO2

SECTION-C
(2Qx20M=40 Marks)

Q 10	Write a brief note on mobile security policies. Or Demonstrate the concept of threat modeling process. Provide all required steps with suitable example.	20	CO3

| Q 11 | Define Mobile cloud computing.
Discuss the following:
  a) Mobile cloud computing applications
  b) Benefits of Mobile cloud computing | **20** | **CO4** |