

UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

End Semester Examination, December 2017

Program: M.Tech CSE

Semester : I

Subject (Course): Data Security

Max. Marks : 100

Course Code : CSCS 7001

Duration : 3 Hrs

No. of page/s: 2

Section-A**Each question carries 4 marks. Attempt any five.**

Write short note on each.

1. Adware
2. Logic Bombs
3. TSR
4. Malvertising
5. Vishing
6. Diffie-Hellman Key Exchange

Section-B**Each question carries 8 marks. All questions are compulsory.**

7. How viruses are different from worms?
8. Explain Asymmetric Cryptography and its role in Digital Certificates.
9. Explain the data security life cycle.
10. Explain in detail how to protect yourself from all types of malwares.
11. Explain, how malwares are formed and spread?

Section-C**Each question carries 20 marks. Attempt any two.**

12. Explain the completeness of the CIA triad in terms of Security. Also, list out the technologies perceived to help achieve the CIA and explain each.
13. Explain the steps in threat modelling. Explain, how would you model the threat in an ATM Banking?
14. Explain the formation and working of the following: (5 each)
 - a. Virus attacks

- b. Phishing attacks
- c. Cryptographic attacks
- d. Botnets.



UNIVERSITY WITH A PURPOSE