

B.C.A. SEM-VI (2014 COURSE) CBCS : SUMMER - 2018

SUBJECT: INFORMATION SECURITY

Day: Tuesday
Date: 24/04/2018

S-2018-1714

Time: 10.00 AM TO 01.00 PM
Max. Marks: 100

N.B:

- 1) Attempt **ANY FOUR** questions from Section-I and **ANY TWO** from Section-II.
 - 2) Answer to both the Sections should be written in the **SEPARATE** answer book.
 - 3) Figures to the write indicate **FULL** marks.
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SECTION-I

- Q.1** Explain in detail legal, ethical and professional issues in information security. (15)
- Q.2** Explain the following: (15)
- a) DoS (Denial of service) attack.
 - b) TEMPEST standards.
 - c) Kerberos Authentication.
- Q.3** Describe the applications of Cryptography in various areas in today's scenario. (15)
- Q.4** Explain in detail what is physical security including emanations security. (15)
- Q.5** What are network topologies? Explain different types of topologies in detail? (15)
- Q.6** Describe different security protocols along with its applications in detail. (15)
- Q.7** Write short notes on (**ANY THREE**): (15)
- a) Information Flow Model
 - b) Need of Information Security
 - c) Risk Management
 - d) Security levels

SECTION-II

- Q.8** What is ciser cipher? Explain different algorithms like Advanced Encryption Standard (AES) and Data encryption standard (DES) in detail. (20)
- Q.9** Rakesh is an information security professional working in ABC InfoTech. He got an assignment to assess the security of this organization. Explain the procedure how Rakesh will assess the security of organization. (20)
- Q.10** Explain what mandatory and discretionary controls are at the time of implementation of security in any organization. (20)

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