

B.C.A. SEM-VI (2014 COURSE) CBCS : WINTER - 2017

SUBJECT: INFORMATION SECURITY

Day: Thursday
Date: 09/11/2017

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

W-2017-1622

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** What is Firewall? Explain in detail types and functions of firewall. (15)
- Q.2** Write in detail information security implementation and maintenance. (15)
- Q.3** Explain in detail different public key cryptosystems along with its applications. (15)
- Q.4** Describe in brief different security models with diagrammatic representation. (15)
- Q.5** Explain different security protocols in detail along with Kerberos authentication. (15)
- Q.6** What are covert channels? Explain the applications of covert channel. (15)
- Q.7** Write short notes on (**ANY THREE**): (15)
- a) Wireless Mobile Network
 - b) Digital Signature
 - c) Digital Cash
 - d) Security Protocols

SECTION-II

- Q.8** Explain in detail legal, ethical, professional issues in information security. (20)
- Q.9** Explain different security models in detail along with diagrammatic representation. (20)
- Q.10** Explain what is DoS (Denial of Service) attack? What are the precautionary measures to avoid this attack? Illustrate with suitable example. (20)

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