

Code: 9F00404a

MCA IV Semester Regular & Supplementary Examinations July 2015

**INFORMATION SECURITY**

(For students admitted in 2009, 2010, 2011, 2012 and 2013 only)

Time: 3 hours

Max Marks: 60

Answer any FIVE questions

All questions carry equal marks

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- 1 (a) Discuss the general model that reflects a concern for protecting an information system from unwanted access.  
(b) What criteria are to be met for a specification to become a standard?
- 2 Draw the overall structure of AES and explain.
- 3 (a) List key distribution using public key cryptography.  
(b) List the design objectives of HMAC.
- 4 (a) Explain PGP trust model with an example.  
(b) What is the difference between signed data and clear signed data?
- 5 (a) Explain about the routing applications of IPSec.  
(b) Explain encapsulating security payload protocol in detail.
- 6 (a) What services SSL record protocol provides for SSL connections?  
(b) Explain how a dual signature is constructed.
- 7 (a) Under what circumstances a decentralized distributed approach works best. Discuss.  
(b) Who is an intruder? Discuss about the intrusion techniques.
- 8 (a) Explain the general model of access control as exercised by DBMS.  
(b) Discuss in detail, two types of proxy based firewalls.

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