

Code: 9F00404a

MCA IV Semester Regular & Supplementary Examinations May 2018

INFORMATION SECURITY

(For students admitted in 2011 (LC), 2012, 2013, 2014, 2015 & 2016 only)

Time: 3 hours Max. Marks: 60

Answer any FIVE questions All questions carry equal marks

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- 1 (a) Explain about security attacks.
 - (b) Define the following terms:
 - (i) Non repudiation.
 - (ii) Access control.
 - (iii) Availability.
- 2 (a) Write short notes on conventional encryption principles.
 - (b) Explain in detail about DES encryption scheme.
- 3 (a) Discuss in detail about RSA crypto system.
 - (b) What is message authentication code? Explain.
- What are the different techniques used for e-mail security? Explain.
- 5 (a) Brief on encapsulating security payload.
 - (b) Describe the features of IKE key determination.
- 6 (a) Briefly explain about secure socket layer.
 - (b) Discuss on transport layer security.
- 7 (a) Write the basic concepts of SNMP.
 - (b) Explain the counter measures for virus.
- 8 Elaborate on firewall design principles and trusted system.
