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R-11 / R-13

Code: 1G162

III B.Tech. II Semester Supplementary Examinations Nov/Dec 2017

Cryptography and Network Security

(Computer Science and Engineering)

Max. Marks: 70

Time: 3 Hours

Answer any **five** questions
All Questions carry equal marks (**14 Marks each**)

- 1. a) Draw the flow chart for Internet RFC publication and explain. 7M
b) Discuss various security attacks. 7M

- 2. a) With a neat diagram explain about location of encryption devices. 7M
b) Describe the operation of HMAC. 7M

- 3. a) Explain the functionality of kerberos version 4. 7M
b) In an RSA system, you intercept the cipher text $C = 10$ sent to a user whose public key is $e = 5, n = 35$. What is the plaintext M ? 7M

- 4. a) Explain PGP message generation with a neat diagram. 10M
b) What are the functions that S/MIME provides? 4M

- 5. a) Draw the Scope of ESP Encryption and Authentication for transport mode and tunnel mode of ESP. 8M
b) Draw the format of Authentication Header explain the fields in it. 6M

- 6. a) Briefly explain SSL change cipher spec protocol. 5M
b) Narrate the steps involved in the purchase request by the customer in secure electronic transaction and explain with a diagram. 9M

- 7. a) Describe the Relationship between an SNMP agent and SNMP managers. 8M
b) Define the following:
i) Virus ii) Worm iii) Trojan Horse 6M

- 8. a) Explain various types of fire walls. 7M
b) Describe the rule based intrusion detection. 7M

Hall Ticket Number :										
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R-11 / R-13

Code: 1G165

III B.Tech. II Semester Supplementary Examinations December 2017

Software Engineering

(Computer Science and Engineering)

Max. Marks: 70

Time: 3 Hours

Answer any **five** questions

All Questions carry equal marks (**14 Marks each**)

1. a) Discuss in detail about software process Models? 7M
b) Write about process Frame work and Software Myths? 7M
2. Discuss in detail about Software functional and Non-functional Requirements? 14M
3. a) Write briefly about Requirements Elicitation and Requirement analysis? 7M
b) Differentiate between Object Models and Structured Methods? 7M
4. a) Define Design patterns and write briefly about Software architecture Design? 7M
b) Describe how we convert and map the Data Flow in to Software Architecture? 7M
5. a) Write about User Interface golden Rules? 7M
b) Discuss about Interface design steps and Design Evaluation? 7M
6. a) Discuss about validation Testing and System Testing? 7M
b) Write about Software Metrics for source code and Testing? 7M
7. a) Discuss about software Risk Components and Risk Strategies? 7M
b) Discuss in detail about RMMM Plan? 7M
8. a) Explain about the Formal Technical Reviews? 7M
b) Write about Statistical software Quality Assurance? 7M
