

G.PULLAIAH COLLEGE OF ENGINEERING & TECHNOLOGY(AUTONOMOUS)

(Accredited by NAAC with 'A' Grade of UGC, Approved by AICTE, New Delhi & Permanently Affiliated to JNTUA, Ananthapuramu)

(Recognized by UGC under 2(f) & 12(B) & ISO 9001: 2008 Certified Institution)

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

IV B.Tech I Semester (R15) II-MID Descriptive Examination November 2018

INFORMATION SECURITY(15A05702)

TIME: 90 MINUTES

MAX MARKS: 30

Date:06/11/2018

PART-I (2*5=10 M)

Q.NO	Questions	Marks	Unit	CO	Cognitive Level
1	A Review on Message Authentication Code?	2 M	III	C418.3	Understand
	B Express the use of SSL Protocol?	2 M	V	C418.5	Understand
	C Define Firewall.	2 M	V	C418.6	Remember
	D Define ESP.	2 M	IV	C418.4	Remember
	E Define Authentication Header.	2 M	IV	C418.4	Remember

PART-II(3*10=30 M)

2	a) What is Digital Signature? What are the various approaches for Digital Signature?	4 M	III	C418.3	Remember
	b) Illustrate the applications of Digital Signature?	6 M	III	C418.3	Apply
OR					
3	a) What is PGP? Explain briefly about its working principle.	7 M	IV	C418.4	Remember
	b) Explain encapsulating security payload.	3 M	IV	C418.4	Understand
OR					
4	a) Discuss the need for Firewall? What is the role of Firewalls in protecting networks?	5 M	V	C418.6	Understand
	b) List the advantages and disadvantages of Application Level Gateway?	5 M	V	C418.5	Analyze
OR					
5	a) Describe about Firewall configuration.	2 M	V	C418.6	Understand
	b) Explain Simple Authentication Messages using Kerberos.	8 M	IV	C418.4	Understand

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PART-I (2*5=10 M)

Q.NO	Questions	Marks	Unit	CO	Cognitive Level
1	A Define Hash Function.	2 M	III	C418.3	Remember
	B What are the SA Parameters?	2 M	IV	C418.4	Remember
	C Review on the different types of Firewalls.	2 M	V	C418.6	Understand
	D Define Web Security.	2 M	IV	C418.4	Remember
	E Point out the approaches to Web Security?	2 M	V	C418.5	Analyze

PART-II(3*10=30 M)

2	a) Explain how email messages are secured using S/MIME signing and encryption.	2 M	IV	C418.4	Understand
	b) State the Radix 64 Format?	8 M	IV	C418.4	Remember

OR

3	a) Summarize the applications for Public key cryptography?	6 M	III	C418.3	Understand
	b) What is Digital Signature? What are the various techniques for Digital Signature?	4 M	III	C418.3	Understand

4	a) Illustrate IP Security scenario and IP Security services.	8 M	V	C418.5	Apply
	b) List the different types of Firewall configurations.	2 M	V	C418.6	Remember

OR

5	a) Explain Simple Authentication Messages using Kerberos.	7 M	IV	C418.4	Understand
	b) Explain the participants of SET and their relationships.	3 M	V	C418.5	Understand

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PART-I (2*5=10 M)

Q.NO	Questions	Marks	Unit	CO	Cognitive Level
1	A Define Web Security.	2 M	III	C418.3	Remember
	B Define Worms.	2 M	V	C418.5	Remember
	C What is encapsulating security payload?	2 M	V	C418.5	Remember
	D Summarize the applications of Firewalls?	2 M	V	C418.6	Understand
	E Point out IP Security services?	2 M	IV	C418.4	Analyze

PART-II(3*10=30 M)

2	a) What is PGP? Explain briefly about its working principle.	7 M	IV	C418.4	Remember
	b) Describe the PGP Services.	3 M	IV	C418.4	Understand
OR					
3	a) List and explain the various approaches for Digital Signature?	7 M	III	C418.3	Remember
	b) Outline the properties of Digital Signature?	3 M	V	C418.5	Understand
OR					
4	a) Explain the different approaches for Symmetric Key Distribution using Symmetric encryption.	7 M	III	C418.3	Understand
	b) Write the general format of PGP Message.	3 M	V	C418.5	Remember
OR					
5	a) Classify the different types of Firewall techniques.	2 M	V	C418.6	Analyze
	b) Explain Simple Authentication Messages using Kerberos.	8 M	IV	C418.4	Understand

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PART-I (2*5=10 M)

Q.NO	Questions	Marks	Unit	CO	Cognitive Level
1	A What is Radix 64?	2 M	III	C418.3	Remember
	B Review on Public Key Certificate?	2 M	III	C418.3	Understand
	C Define Viruses.	2 M	V	C418.5	Remember
	D Discuss about SSL Protocol?	2 M	IV	C418.4	Understand
	E What are the IP Security services?	2 M	V	C418.6	Remember

PART-II(3*10=30M)

2	a) Explain X.509 Authentication services.	8 M	IV	C418.4	Understand
	b) Write the general format of PGP Message.	2 M	V	C418.5	Remember
OR					
3	a) List the services of PGP.	4 M	V	C418.5	Analyze
	b) What is the purpose of Digital Signature? List its properties and requirements.	6 M	III	C418.3	Remember
OR					
4	a) Draw and discuss the architecture of IP Security.	6 M	IV	C418.4	Understand
	b) Report on types of Firewalls.	4 M	V	C418.5	Understand
OR					
5	a) Explain Simple Authentication Messages using Kerberos.	5 M	IV	C418.4	Understand
	b) List out the MAC Functions and basic uses.	5 M	III	C418.3	Analyze