

THIAGARAJAR POLYTECHNIC COLLEGE, SALEM

(Autonomous)

Reg. No.

April 2019 Examinations

DIPLOMA IN COMPUTER ENGINEERING

Network Security and Administration

Year/Sem: III / VI (EVEN-III)

Max. Marks : 75

Time : 3 hr.

PART-A**(5 x 2 = 10 Marks)****Note: (i) Answer any FIVE questions out of which question No.8 is compulsory.****(ii) All questions carry equal marks.**

- 1 Mention any four categories of threads.
- 2 Write down the terms involved in risk management.
- 3 What is meant by authentication?
- 4 How will you detect the intruder in a system?
- 5 Expand the term DHCP, ADS, DNS & VPN.
- 6 Differentiate user space and kernel space (Any Two Points).
- 7 Write the command for Add, Remove user in Linux.
- 8 List any four applications of Digital Signature.

PART-B**(5 x 3 = 15 Marks)****Note: (i) Answer any FIVE questions out of which question No. 16 is compulsory.****(ii) All questions carry equal marks.**

- 9 List any six security services available in network security.
- 10 Explain in briefly about software assurance.
- 11 Write a RSA algorithm in cryptography with an example.
- 12 Write down the steps to implement VPN in your institution.
- 13 How will you create a Scope in windows server?
- 14 Mention any six top level domain available in DNS.
- 15 List out any three file system permission command in Linux.
- 16 Draw the neat diagram for connectivity of SET participants.

PART-C**(5 x 10 = 50 Marks)****Note: (i) Answer all the questions choosing either sub-division (A) or sub-division (B) of each question.****(ii) All divisions carry equal marks.**

- | | | | |
|----|---|---|----|
| 17 | A | i) List down the software design principles. | 5 |
| | | ii) Explain the concept of identify the risk in a system. | 5 |
| | | (OR) | |
| | B | What is meant by attack? And describe any five types of attacks. | 10 |
| 18 | A | i) Mention the various types of public key algorithm and explain any one of them. | 5 |
| | | ii) Write any five advantages and disadvantages of ethical hacking. | 5 |
| | | (OR) | |
| | B | Discuss the concept of disk encryption and its types. | 10 |
| 19 | A | i) How will you detect the Eaves dropping and honey pot in a network? | 5 |
| | | ii) What is the use of firewall? Also write the limitations of firewall. | 5 |
| | | (OR) | |
| | B | Elaborate the concept of web security. | 10 |
| 20 | A | i) Summarize the concept of upgrading of existing OS. | 5 |
| | | ii) Explain about create and managing group policies in windows server. | 5 |
| | | (OR) | |
| | B | Discuss about installing and configuring DHCP server. | 10 |
| 21 | A | i) Explain in detail about architecture overview of kernel with neat diagram. | 5 |
| | | ii) List any five common file system command in Linux and explain. | 5 |
| | | (OR) | |
| | B | Explain the following terms in briefly | 10 |
| | | (i) Linux process state (ii) Linux signal (iii) Backup in Linux (iv) Restores | |

PART-A

(5 x 2 = 10 Marks)

Note: (i) Answer any FIVE questions out of which question No.8 is compulsory.**(ii) All questions carry equal marks.**

- 1 List down the multimedia applications.
- 2 What is virtual Reality?
- 3 What is Codec?
- 4 List the need for data compression.
- 5 What are the requirements for full-motion video compression?
- 6 What is Video frame grabber? What are its types?
- 7 What are the Internet Services available in multimedia?
- 8 Write short notes on animation for Web.

PART-B

(5 x 3 = 15 Marks)

Note: (i) Answer any FIVE questions out of which question No. 16 is compulsory.**(ii) All questions carry equal marks.**

- 9 Write down the file formats for multimedia systems.
- 10 Explain 3D Technologies and Holography.
- 11 Differentiate between Bitmap and Vector graphics.
- 12 Write short notes on sound for the internet.
- 13 Explain about TWAIN.
- 14 Explain the working of a flat bed scanner.
- 15 What are the responsibilities of a Project Manager?
- 16 Explain about plug-ins.

PART-C

(5 x 10 = 50 Marks)

Note: (i) Answer all the questions choosing either sub-division (A) or sub-division (B) of each question.**(ii) All divisions carry equal marks.**

- | | | | |
|----|---|--|----|
| 17 | A | i) What is Multimedia authoring? | 5 |
| | | ii) Explain about useful editing and Authoring tools. | 5 |
| | | (OR) | |
| | B | i) Explain the Network architecture for multimedia systems. | 5 |
| | | ii) Explain the types of multimedia software tools. | 5 |
| 18 | A | Explain how Video works? Write about Analog video and Digital Video. Compare them. | 10 |
| | | (OR) | |
| | B | Explain the multimedia system sounds and adding sound to your multimedia project. | 10 |
| 19 | A | Explain any 5 popular file formats. | 10 |
| | | (OR) | |
| | B | i) Explain the Lossy compression schemes. | 5 |
| | | ii) Explain about JPEG and MPEG. | 5 |
| 20 | A | i) Explain the working of a Laser printer. | 5 |
| | | ii) Explain how to make instant multimedia. | 5 |
| | | (OR) | |
| | B | i) Explain the stages of a multimedia project. | 5 |
| | | ii) Explain about sound editing tools with example. | 5 |
| 21 | A | i) Explain client side image maps. | 5 |
| | | ii) Explain cloud computing for multimedia services. | 5 |
| | | (OR) | |
| | B | Explain about how multimedia designing and producing can be implemented for designing a CBT from your favourite subject (only one topic) | 10 |

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PART-A**(5 x 2 = 10 Marks)****Note: (i) Answer any FIVE questions out of which question No.8 is compulsory.****(ii) All questions carry equal marks.**

- 1 What do you mean by Rapid elasticity?
- 2 List the sensitive data's in Cloud Computing.
- 3 List the organization's who provide SaaS service?
- 4 What are the advantages of Go Grid?
- 5 List any four limitations of virtualization.
- 6 What are the benefits of software virtualization?
- 7 What are the considerations for storage network design?
- 8 What are the three categories of services provided by cloud brokers?

PART-B**(5 x 3 = 15 Marks)****Note: (i) Answer any FIVE questions out of which question No. 16 is compulsory.****(ii) All questions carry equal marks.**

- 9 Explain enterprise-grid computing and list the advantages.
- 10 Discuss Reduced Data Leakage in security benefits.
- 11 What are the recent developments of Infrastructure as a service?
- 12 Explain the different cloud computing deployment models defined by NIST.
- 13 Compare the concept, advantages and limitations of full virtualization vs para virtualization?
- 14 Explain Microsoft Hyper-V in detail.
- 15 Explain Cloud Data Management Interface.
- 16 Analyse the risk needed to perform while securing the cloud.

PART-C**(5 x 10 = 50 Marks)****Note: (i) Answer all the questions choosing either sub-division (A) or sub-division (B) of each question.****(ii) All divisions carry equal marks.**

- 17 A What do you mean by GI Cloud? Explain in detail the policies framed by the Government. 10
(OR)
B i) What do you mean by Service Consolidation? Discuss the types of Service Consolidation. 5
ii) Explain how web service management is done in Cloud. 5
- 18 A Discuss in detail the SPI Framework and its Evolution. 10
(OR)
B Explain the advantages of cloud computing in detail. 10
- 19 A Analyse software and memory virtualization with its benefits. 10
(OR)
B With a neat diagram discuss the deployment of virtualization in V-VMWare. 10
- 20 A Explain the phases of planning while deploying the applications to cloud. 10
(OR)
B Explain FC SAN and Hybrid storage technologies. 10
- 21 A i) Discuss on Cloud Encryption. 5
ii) Explain the Cloud Computing Security Challenges. 5
(OR)
B Explain Open Stack Architecture in detail. 10