

Code: 150-7312

COMPUTER

THIAGARAJAR POLYTECHNIC COLLEGE, SALEM

Autonomous Final Semester 2020 Examinations

**DIPLOMA IN COMPUTER ENGINEERING
NETWORK SECURITY AND ADMINISTRATION**

Reg. No.

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

Time : 2 hrs

Date & Session: 23.09.2020/AN

Max. Marks : 50

PART-A

(4 x 2 = 8 Marks)

Note: (i) Answer any FOUR questions. (ii) All the questions carry equal marks.

- 1 Define network security. List its types.
- 2 Define the terms Terrorists and Information warfare.
- 3 Compare Authentication versus Authorization.
- 4 Distinguish between hash function and digest function with an example.
- 5 What are the Security Mechanisms?
- 6 Define Windows Server. List its versions.
- 7 Define Internet Domain Namespace.
- 8 Distinguish between Kernel Mode and User Mode.

PART-B

(4 x 3 = 12 Marks)

Note: (i) Answer any FOUR questions. (ii) All the questions carry equal marks.

- 9 Define Intrusion. Explain any two types of Intrusion.
- 10 Compare Digital signatures versus ink on paper signatures.
- 11 Briefly explain Full-disk encryption.
- 12 Define Virtual Private Network (VPN). Write down its types and benefits.
- 13 What is Firewall? Briefly explain its types.
- 14 Write short notes on Performance Monitoring Tools.
- 15 What do you mean Backup? List its types.
- 16 Define Linux file system. List the commands used to navigate the system.

PART-C

(3 x 10 = 30 Marks)

Note: i) Answer any THREE questions ii) All the questions carry equal marks.

- 17 i) What is meant by Threats? Briefly explain the types of computer security threats. 5
ii) What is meant by Attacks? Briefly explain its types. 5
- 18 With example explain i) The RSA Algorithm ii) Diffie-Hellman Algorithm 10
- 19 Define Web Security. Explain any two Web security mechanisms in detail. 10
- 20 i) Define Active Directory Domain Services (ADS). Explain how to create and manage users with ADS. 5
ii) How to create Shared Folders using Windows Explorer. 5
- 21 i) Discuss about a) Types of Linux File Management b) Linux file permissions and access modes. 5
ii) Explain process components. 5
- 22 Explain the following i) Explain Architecture of Kernel 10
ii) Server Backup and Restore Procedures

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DIPLOMA IN COMPUTER ENGINEERING

Reg. No.

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MULTIMEDIA SYSTEMS

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

Time : 2 hrs

Date & Session:24.09.2020/AN

Max. Marks : 50

PART-A

(4 x 2 = 8 Marks)

Note: (i) Answer any FOUR questions. (ii) All the questions carry equal marks.

- 1 What is virtual reality?
- 2 What is OpenGL?
- 3 Define codec.
- 4 What is lossy and non lossy compression?
- 5 What is the use of TWAIN?
- 6 List the text editing and word processing tools.
- 7 Give any two examples for web based applications.
- 8 List the types of MIME.

PART-B

(4 x 3 = 12 Marks)

Note: (i) Answer any FOUR questions. (ii) All the questions carry equal marks.

- 9 What is 3D Technology? How is holography related to 3D technology?
- 10 What is multimedia authoring? List any two authoring tool.
- 11 Differentiate bitmap and vector graphics.
- 12 List down the advantages and disadvantages of fractal compression.
- 13 Write briefly about social media sharing.
- 14 Write short notes on OCR software.
- 15 Describe plug-ins and players.
- 16 Discuss briefly about bandwidth bottleneck.

PART-C

(3 x 10 = 30 Marks)

Note: i) Answer any THREE questions ii) All the questions carry equal marks.

- 17 Explain in detail the Network architecture for multimedia systems. 10
- 18 i) Explain the various multimedia elements. 5
 ii) Explain in detail the structure of a VRML file. 5
- 19 Briefly explain about hypermedia structure and hypermedia tools in multimedia applications. 10
- 20 i) Explain briefly about JPEG compression. 5
 ii) Explain in detail about user generated media content sharing. 5
- 21 Briefly explain the different types of authoring tools. 10
- 22 i) What are the various factors to be considered when adding video on web? 5
 ii) Explain how the user interface is designed for multimedia. 5

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DIPLOMA IN COMPUTER ENGINEERING

Reg. No.

CLOUD COMPUTING

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

Time : 2 hrs

Date & Session: 25.09.2020/AN

Max. Marks : 50

PART-A

(4 x 2 = 8 Marks)

Note: (i) Answer any FOUR questions. (ii) All the questions carry equal marks.

- 1 Mention any two essential characteristics of cloud computing.
- 2 List out any two limitations of cloud computing.
- 3 What are the technical criteria in evaluating SaaS?
- 4 Write any two advantages of cloud computing.
- 5 Define Desktop Virtualization.
- 6 Compare managed and unmanaged cloud storage.
- 7 What is cloud encryption?
- 8 List the categories of cloud security challenges.

PART-B

(4 x 3 = 12 Marks)

Note: (i) Answer any FOUR questions. (ii) All the questions carry equal marks.

- 9 What is high scalability architecture?
- 10 Mention the services of PaaS.
- 11 Compare Traditional IT model and SPI model.
- 12 What is the need of virtualization?
- 13 Explain Thin Client.
- 14 Write down the features of Cloud backup.
- 15 Explain brokered cloud storage access.
- 16 What is the use of open stack cloud? Write the commands to install open stackdashboard.

PART-C

(3 x 10 = 30 Marks)

Note: i) Answer any THREE questions ii) All the questions carry equal marks.

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| 17 | i) Explain about Enterprise Grid Computing. | 5 |
| | ii) Explain Autonomic computing. | 5 |
| 18 | Discuss the operational and economic benefits of SaaS. | 10 |
| 19 | Explain in brief about | |
| | i) Memory Virtualization | 5 |
| | ii) Storage Virtualization | 5 |
| 20 | Explain Storage network analysis, planning and design considerations. | 10 |
| 21 | Explain with neat diagram about the different technologies of hybrid storage networking. | 10 |
| 22 | i) Briefly explain the CSA Cloud reference model. | 5 |
| | ii) Explain how the cloud security challenges are classified. | 5 |