



**CVR COLLEGE OF ENGINEERING**  
An UGC Autonomous Institution - Affiliated to JNTUH  
B.Tech. IV Year I Sem. II Mid Examinations, December - 2021  
Subject: Cryptography and Network Security  
Branch: IT

Date: 15-12-2021(FN)

Time: 1 hr 45 min

Max. Marks: 40 M

**PART - A**

Answer ALL questions

5x2 = 10 M

1. What are the five principal services provided by PGP? BL1 CO3
2. Summarize the parameters that are used to define an SSL session connection. BL2 CO4
3. Discover the role of dual signature in Secured Electronic Transaction. BL4 CO4
4. Outline the three important lines of defense against DDoS attacks. BL2 CO5
5. Name the goals that are considered during the design of the firewalls. BL1 CO5

**PART - B**

Answer ALL questions

3x10= 30 M

6. Illustrate the types of S/MIME Content with the process of securing it. BL2 CO3
- (OR)
7. Analyze and discover the operational description and cryptographic functions of PGP. BL4 CO3
8. Justify the significance of IP Security architecture with its supported key management schemes. BL5 CO4
- (OR)
9. Elaborate on the importance of Secure Socket Layer and Transport Layer Security protocols. BL6 CO4
10. Examine the concept of Trusted Systems with its data access control and Trojan Horse defense mechanism. BL4 CO5
- (OR)
11. Assess the potentiality of different types and configurations of firewall with neat sketches. BL5 CO5

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**CVR COLLEGE OF ENGINEERING**  
An UGC Autonomous Institution - Affiliated to JNTUH  
**B.Tech. IV Year I Sem. II Mid Examinations, December - 2021**  
**Subject: Introduction of Linux Programming**  
**Branch: IT**

Date: 15-12-2021(AN)

Time: 1 hr 45 min

Max. Marks: 40 M

**PART - A**

Answer ALL questions

5x2 = 10 M

1. What is the usage of *pause()* system call? BL1 CO3
2. How is *raise()* different from *kill()*? BL2 CO3
3. Write the prototype of *msgrcv()* system call. BL1 CO4
4. Why shared memory alone can't provide full fledged communication? BL2 CO4
5. What is the need of *htons()* function in network programming? BL2 CO5

**PART - B**

Answer ALL questions

3x10= 30 M

6. Apply the signal handling technique on SIGSEGV to implement a robust C program that can handle floating point error. BL4 CO3  
(OR)
7. Implement a C program that can avoid zombie processes by handling SIGCHLD signal BL3 CO3
8. Design interactive programs that achieve communication between sender and receiver using message queues. BL5 CO4  
(OR)
9. Create a solution for Producer Consumer problem using System V Shared memory and Semaphores? BL6 CO4
10. Provide a multi-threaded solution for Reader Writer problem. BL3 CO5  
(OR)
11. Create a UDP echo server program that receives a message from TCP client and echoes it back to the client. BL5 CO5

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Date: 16-12-2021(FN)

Branch: IT

Time: 1 hr 45 min

Max. Marks: 40 M

**PART - A**  
Answer ALL questions

5x2 = 10 M

1. List Standards for Security.
2. Define Presence in Cloud. Name the service which provides Presence information.
3. Classify various Standards for Cloud Security.
4. Give examples for Container Based Clouds.
5. List major advantages of Zimbra over G-mail.

CO3L4

CO4 L1

CO4 L2

CO6 L1

CO5 L1

**PART - B**  
Answer ALL questions

3x10= 30 M

6. Describe functions of Distributed Management Task Force(DMTF) . Explain in detail Open Virtualization Format(OPENVF).
7. (OR)  
mess Evolution of Cloud Messaging Standards highlighting how deficiencies of each
8. Explain standard overcome.
9. Define detail Various Cloud Federation Mechanisms.
9. (OR)  
Security. Discuss in detail how Data Security is enforced in Cloud.
10. With the suitable diagram Explain Amazon Machine Image. Explain role of EBS.
11. Discuss Vari (OR)  
related to You-Tube. Discuss features Zoho Service.

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An UGC Autonomous Institution - Affiliated to JNTUH  
**B.Tech. IV Year I Sem. II Mid Examinations, December - 2021**  
**Subject: Computer Forensics**  
**Branch: IT**

Date: 16-12-2021(AN)

Time: 1 hr 45 min

Max. Marks: 40 M

**PART – A**

Answer **ALL** questions

5x2 = 10 M

1. List various steps for preparing search. L1 CO3
2. Mention the five required functions for computer forensic tools? L1CO4
3. Identify any two email forensic tools? L3 CO4
4. Identify the four places where mobile device information might be stored. L2CO5
5. Explain the features of NTFS. L2 CO5

**PART – B**

Answer **ALL** questions

3x10= 30 M

6. Discuss the standard procedures developed for network forensics? L5 CO3
- (OR)
7. Compile the steps for Securing a Computer Incident or Crime Scene? L6 CO3
8. How will computer forensics software tools analyse? L1 CO4
- (OR)
9. Examine various steps to examine Microsoft server logs. L4 CO4
10. Write short notes on L2 CO5
  - a. iPhone Forensics
  - b. Mobile Forensics
- (OR)
11. Examine Windows registry components and discuss. L4 CO5

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# CVR COLLEGE OF ENGINEERING

An UGC Autonomous Institution - Affiliated to JNTUH

B.Tech. IV Year I Sem. II Mid Examinations, December - 2021

Subject: **Basics of Human Anatomy and Physiology (OE-**

Date: 17-12-2021(FN)

Time: 1 hr 45 min

Max. Marks:

## PART – A

Answer ALL questions

5x2 =

- |   |    |     |
|---|----|-----|
| 1. List out the bones of upper and lower limbs. | L1 | CO3 |
| 2. Classify the parts of digestive system.      | L4 | CO4 |
| 3. List out the functions of thyroid gland      | L4 | CO4 |
| 4. Define acidosis                              | L1 | CO5 |
| 5. What is Hypovolemia?                         | L1 | CO5 |

## PART – B

Answer ALL questions

3x10= 30 M

- |   |    |     |
|---|----|-----|
| 6. a) Classify the functional joints.                                 | L4 | CO3 |
| b) Illustrate the structure of a long bone                            | L2 | CO3 |
| (OR)  |    |     |
| 7. a) List out the functions of skeletal system.                      | L4 | CO3 |
| b) Elaborate the types of bones.                                      | L5 | CO3 |
| (OR)  |    |     |
| 8. a) Explain the microanatomy of Nephron.                            | L6 | CO4 |
| b) List out the parts of excretory system.                            | L4 | CO4 |
| (OR)  |    |     |
| 9. a) List out the accessory organs of digestive system               | L4 | CO4 |
| b) Elaborate mechanical and chemical process of digestion.            | L5 | CO4 |
| (OR)  |    |     |
| 10. What are the electrolytes? Explain its regulation in body fluids. | L6 | CO5 |
| (OR)  |    |     |
| 11 a) List out the water compartments in body fluids.                 | L4 | CO5 |
| b) Explain the regulation of water in body fluids.                    | L6 | CO5 |

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Date: 17-12-2021(AN)

Time: 1 hr 45 min

Max. Marks: 40 M

**PART - A**

Answer ALL questions

5x2 = 10 M

1. Compare "privacy" and information Privacy". BL 5 CO 3
2. Illustrate a simple e-commerce security environment with the help of a diagram. BL 2 CO 4
3. List out the different dimensions of e-commerce security from the customer and merchant perspective. BL 1 CO 4
4. Present a simple analysis of growth of social networks and online communities in recent years. BL 4
5. Organize the top 5 social networking sites in order of "most number of unique visitors in a month". BL 3 CO 5

**PART - B**

Answer ALL questions

3x10= 30 M

6. Elaborate on the three main types of Intellectual Property protection:  
i) Patent ii) Trademark iii) copyright BL 2 CO 3  
(OR)
7. Discuss a model for organizing the ethical, social and political issues in e-commerce. BL 2 CO 3
8. Analyze the most common security threats in e-commerce environment. BL 4 CO 4  
(OR)
9. Elaborate on various aspects for developing a security plan for e-commerce. BL 3 CO 4
10. Discuss various types of social networks? Deduct a model for business on any one type of social network based on knowledge you have acquired. BL 5 CO 5  
(OR)
11. Elaborate on the methods for defining and measuring the growth of auction and dynamic pricing. BL 3 CO 5

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