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NOIDA INSTITUTE OF ENGINEERING AND TECHNOLOGY, GREATER NOIDA

(An Autonomous Institute Affiliated to AKTU, Lucknow)

MCA (Integrated)

SEM: II - THEORY EXAMINATION (2024 - 2025)

Subject: Internet and Web Designing

Time: 3 Hours

Max. Marks: 100

General Instructions:

IMP: Verify that you have received the question paper with the correct course, code, branch etc.

1. This Question paper comprises of **three Sections -A, B, & C**. It consists of Multiple Choice Questions (MCQ's) & Subjective type questions.
2. Maximum marks for each question are indicated on right -hand side of each question.
3. Illustrate your answers with neat sketches wherever necessary.
4. Assume suitable data if necessary.
5. Preferably, write the answers in sequential order.
6. No sheet should be left blank. Any written material after a blank sheet will not be evaluated/checked.

SECTION-A

20

1. Attempt all parts:-

- | | | |
|------|---|---|
| 1-a. | How physical and data link layers of a network operate? (CO1, K1) | 1 |
| | (a) Unjointly | |
| | (b) Seperately | |
| | (c) Locally | |
| | (d) Independently | |
| 1-b. | It is a computer program with a graphical user interface for displaying and navigating between webpages is to be termed as: (CO1, K2) | 1 |
| | (a) www | |
| | (b) Web Browser | |
| | (c) Protocol | |
| | (d) None of these | |
| 1-c. | Which is the slowest Internet connection service? (CO2, K2) | 1 |
| | (a) Land line | |
| | (b) Dial up service | |
| | (c) Digital subscriber line | |
| | (d) Cable modem | |
| 1-d. | ISP stands for: (CO2, K2) | 1 |
| | (a) Internet Survey Period | |
| | (b) Integrated Service Provider | |

- (c) Internet Service Provider
- (d) Internet Security Protocol
- 1-e.is the maximum length a text field can have. (CO3, K2) 1
- (a) 75
- (b) 120
- (c) 255
- (d) 265
- 1-f. The second part of email address identifies _____ (CO3, K2) 1
- (a) Routing
- (b) name of the email server
- (c) name of individual user
- (d) name of the mobile phone operator
- 1-g. Which one of the following is a type of antivirus program? (CO4, K1) 1
- (a) Quick heal
- (b) Mcafee
- (c) Kaspersky
- (d) All of the above
- 1-h. What is the existence of weakness in a system or network is known as? (CO4, K2) 1
- (a) Attack
- (b) Exploit
- (c) Vulnerability
- (d) Threat
- 1-i. At first, ARPANET was intended to support the on fault-tolerant computer networks. (CO5, K2) 1
- (a) Military research
- (b) Educational research
- (c) Governmental research
- (d) Scientific research
- 1-j. Which of the following is an example of connectivity? (CO5, K2) 1
- (a) Internet
- (b) Floppy Disk
- (c) Power Cord
- (d) Data

2. Attempt all parts:-

- 2.a. Explain the term Data Processing. (CO1, K2) 2
- 2.b. Describe how does a Frame Relay Work? (CO2, K3) 2
- 2.c. Briefly explain types of Internet connection. (CO3, K2) 2
- 2.d. Explain the Firewall's disadvantages. (CO4, K2) 2

2.e.	Describe the steps for creating a nested webpage in HTML. (CO5, K3)	2
SECTION-B		30
3. Answer any <u>five</u> of the following:-		
3-a.	How does MIME enhance SMTP? (CO1, K2)	6
3-b.	Discuss the short notes on Intranet Vs Internet and describe them. (CO1, K2)	6
3-c.	Define the protocols that govern the functioning of the Application layer. (CO2, K2)	6
3-d.	Describe the characteristics and applications of the following network devices : (CO2, K3) (a) Repeaters (b) Routers (c) Bridge (d) Switches	6
3.e.	Describe the Net Etiquette. Specify the good Net Etiquette Rule. (CO3, K3)	6
3.f.	Explain in brief advantages and disadvantages of Firewall applications. (CO4, K2)	6
3.g.	Describe List elements in HTML with suitable example. (CO5, K3)	6
SECTION-C		50
4. Answer any <u>one</u> of the following:-		
4-a.	Explain the different method of Choosing an ISP. (CO1, K2)	10
4-b.	Explain the concept of web page, including its elements (text, pages, hyperlink etc.) (CO1, K2)	10
5. Answer any <u>one</u> of the following:-		
5-a.	Explain the different categories of networks. (CO2, K2)	10
5-b.	Explain the different types of connections in FTP. (CO2, K2)	10
6. Answer any <u>one</u> of the following:-		
6-a.	Explain about spam filtering with suitable example. (CO3, K3)	10
6-b.	Discuss the Apache web server. (CO3, K2)	10
7. Answer any <u>one</u> of the following:-		
7-a.	Discuss in brief Emerging Client Server. (CO4, K2)	10
7-b.	Discuss the cognitive security with example. (CO4, K3)	10
8. Answer any <u>one</u> of the following:-		
8-a.	Describe the term forms in HTML and how to create forms in HTML. (CO5, K3)	10
8-b.	Explain the 'class' and 'id' attributes in HTML. (CO5, K3)	10