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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 (2023- 2024)

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. A piece of icon or image on a web page associated with another webpage is called _____ (CO1) 1
- (a) url
 - (b) hyperlink
 - (c) plugin
 - (d) extension
- 1-b. The datagram network uses universal addresses defined in the network layer to route packets from source to the... (CO1) 1
- (a) Destination
 - (b) Application
 - (c) Same source
 - (d) Layers
- 1-c. The first dial-up connection was made in 1965 by (CO2) 1
- (a) Lawrence G. Roberts
 - (b) Robert Hook
 - (c) Bill Gates
 - (d) None of these
- 1-d. Suppose you have received an encrypted message and want to convert this message into the actual message (before encryption). Which technique you will 1

use for it? (CO2)

- (a) Conversion
- (b) Encryption
- (c) Decryption
- (d) Both a and c

- 1-e. A subset of characters within a data field is known as (CO3) 1
- (a) Byte
 - (b) File
 - (c) Record
 - (d) Data string
- 1-f. A search value can be an exact value or it can be: (CO3) 1
- (a) Wild card character
 - (b) Comparison operation
 - (c) Relationship
 - (d) Logical operator
- 1-g. DNS translates a Domain name into _____ (CO4) 1
- (a) Hex
 - (b) Binary
 - (c) IP
 - (d) URL
- 1-h. Network security consists of: (CO4) 1
- (a) Protection
 - (b) Detection
 - (c) Reaction
 - (d) All of the above
- 1-i. What is the effect of the tag? (CO5) 1
- (a) It change the font color black
 - (b) It converts the text within it to bold font
 - (c) It makes the font Italic
 - (d) It makes the font big
- 1-j. Which attribute is used to name an element uniquely? (CO5) 1
- (a) class
 - (b) id
 - (c) dot
 - (d) All the above

2. Attempt all parts:-

- 2.a. Explain SNMP (Simple Network Management Protocol). (CO1) 2

- 2.b. Describe four main properties of HTTP. (CO2) 2
- 2.c. Explain the term bridge. (CO3) 2
- 2.d. Define the term Vulnerability. (CO4) 2
- 2.e. Explain the difference between HTML elements and tags. (CO5) 2

SECTION-B

30

3. Answer any five of the following:-

- 3-a. Define the difference Between the World Wide Web and the Internet. (CO1) 6
- 3-b. Explain the term Intranet. Describe the composition of the Intranet in detail. (CO1) 6
- 3-c. Describe the different types of Transmission modes, with their advantages and disadvantages. (CO2) 6
- 3-d. List the different types of routing algorithm and explain any one of them. (CO2) 6
- 3.e. Explain the merits and demerits of TCP/IP protocols. (CO3) 6
- 3.g. Describe the use of marquee tag with example. (CO5) 6
- 3.f. Write down the steps will you take to secure a server. (CO4) 6

SECTION-C

50

4. Answer any one of the following:-

- 4-a. Explain Client-Server with proper diagram. (CO1) 10
- 4-b. Explain the difference between SMTP and FTP. (CO1) 10

5. Answer any one of the following:-

- 5-a. Explain the Access Network Architecture. (CO2) 10
- 5-b. Explain the characteristics of the Border Gateway Protocol (BGP). (CO2) 10

6. Answer any one of the following:-

- 6-a. Explain the HTTP methods. (CO3) 10
- 6-b. Explain the difference between an application server and web server. (CO3) 10

7. Answer any one of the following:-

- 7-a. Describe the use of VPN. (CO4) 10
- 7-b. Explain the difference between vulnerability assessment and penetration testing. (CO4) 10

8. Answer any one of the following:-

- 8-a. Discuss frame ? Explain the tags with its attributes and examples. (CO5) 10
- 8-b. Explain form. What are the major attributes of the form ? Explain any six form components with example. (CO5) 10