

**MASTER OF COMPUTER APPLICATION
FOURTH SEMESTER
WEB TECHNOLOGY
MCA-404**

(Use separate answer scripts for Objective & Descriptive)

Duration : 3 hrs.

Full Marks : 70

(PART-A : Objective)

Time : 20 min.

Marks : 20

Choose the correct answer from the following:

1x20=20

1. Working of the WAN generally involves:
 - a. Telephone lines
 - b. Satellites
 - c. Microwaves
 - d. All of the above
2. Two main types of Access is:
 - a. Standard & IEEE
 - b. Standard & Extended
 - c. Extended & IEEE
 - d. Specialized and IEEE
3. How long IPv6 is?
 - a. 32 bits
 - b. 128 bits
 - c. 128 bytes
 - d. 32 bytes
4. Which protocol does DHCP used in transport layer?
 - a. TCP
 - b. UDP
 - c. IP
 - d. ARP
5. Full form of NIC:
 - a. Network Interface Cable
 - b. Network Inserted Cable
 - c. Network Interface Card
 - d. None of the above
6. Which of the following options is correct with regard to HTML?
 - a. It is a modeling language
 - b. It is a DTP language
 - c. It is a partial programming language
 - d. It is used to structure documents
7. Which of the following statement is not true regarding JavaScript?
 - a. A JavaScript embedded in an HTML document is compiled and executed by the client browser.
 - b. JavaScript is a loosely typed language.
 - c. JavaScript is an object-based language.
 - d. JavaScript is event driven.
8. Fiber optics have maximum segment:
 - a. 500 m
 - b. 5000 m
 - c. 200 m
 - d. 2000m
9. What method is used to specify a container's layout in JSP?
 - a. setLayout()
 - b. Layout()
 - c. setConLayout()
 - d. ContainerLayout()

10. In ASP the function which returns an expression formatted as a date or time is:

- a. FormatTimeDate()
- b. FormatDT()
- c. FormatDateTime()
- d. All of the above

11. Dynamic web page:

- a. is same every time whenever it displays.
- b. generates on demand by a program or a request from browser.
- c. both (a) and (b).
- d. none of the above.

12. HUB works in:

- a. Physical Layer
- b. Presentation Layer
- c. Application Layer
- d. Datalink Layer

13. What is a web browser?

- a. A program that can display a web page.
- b. It enables user to access the resources of internet.
- c. A program used to view html documents.
- d. All of the above.

14. Which one of the following is not used to generate dynamic web pages?

- a. PHP
- b. ASP.NET
- c. JSP
- d. None of the Above

15. AJAX stands for:

- a. advanced java and xml
- b. asynchronous javaScript and xml
- c. asynchronous java and xml
- d. advanced javaScript and xml

16. The topology with highest reliability is:

- a. Star
- b. Bus
- c. Ring
- d. Mesh

17. What would be the colours of the RGB where the hexadecimal values are #FF0000, #00FF00 and #0000FF respectively?

- a. Blue, Green, Red
- b. Green, Blue, Red
- c. Red, Green, Blue
- d. None of the above

18. In wireless ad-hoc network:

- a. access point is not required
- b. access point is must
- c. nodes are not required
- d. none of the above

19. www is based on which model?

- a. Local Server
- b. Client Server
- c. 3 tier Server
- d. Both a & b

20. The elements <DIV> and have the following characteristics:

- a. Element <DIV> inherits properties defined for in a style-sheet.
- b. <DIV> and have no real meanings as html tags unless style-sheet is applied.
- c. Elements and <DIV> define content to be inline or block-level.
- d. <DIV> is used inside element <P>.

(PART-B : Descriptive)

Time : 2 hrs. 40 min.

Marks : 50

[Answer question no.1 & any four (4) from the rest]

1. Explain ISO/OSI model with a suitable diagram. Also give the responsibilities of each layer of ISO model. 10
2. Explain DNS server in details with example. 10
3. Compare between IPv4 and IPv6. Which one is class-full addressing mode? Explain in details. 5+5=10
4. What do you understand by Client side programming and Server Side Programming? Justify your answer with suitable examples. 10
5. Write short notes on : (any two) 5×2=10
 - a. ActiveX
 - b. AJAX
 - c. XML
6. What is OSI model of web security? Define its components with suitable example. 10
7. What is Cryptography, Cryptology & Cryptanalysis? Explain Private key Cryptography in details. 6+4=10
8. Write the working principle of Mobile IP. 10

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