MCA (Sem. - 5ᵗʰ)
INTERNET PROGRAMMING AND JAVA
SUBJECT CODE : MCA - 502 (N2)
Paper ID : [B0123]

[Note : Please fill subject code and paper ID on OMR]

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Time : 03 Hours   **Maximum Marks : 60**

Instruction to Candidates:

1) Attempt any One question from each Sections **A,B,C & D**.

2) Section - E is **Compulsory**.

3) Use of Non-programmable **Scientific Calculator** is allowed.

Section - A

(1 × 10 = 10)

Q1) What is the use of internet to the society? List and compare different types of internet connections option available for home users?

Q2) (a) Explain HTTP request and HTTP response.

(b) Differentiate between HTML and DHTML with the help of suitable examples.

Section - B

(1 × 10 = 10)

Q3) Differentiate clearly between the functioning of Transmission control protocol and Internet protocol.

Q4) What do you mean by Domain Name System? Differentiate between an IP address and MAC address.

Section - C

(1 × 10 = 10)

Q5) (a) Discuss the execution handling mechanism in Java. Outline a few common executions in Java.

(b) Discuss the life cycle of an Applet. Write a Java program that implements the Applet concept?

Q6) Write a suitable Java program to demonstrate the implementation of threads.

Section - D.

Q7) Compare the working of ServerSocket and DatagramSocket with the help of suitable examples.

Q8) (a) What are different socket options? Explain in detail.

(b) Why can't my applet connect via sockets, or bind to a local port? Explain.

Section - E

Q9)

a) What is SLIP?

b) What is CGI?

c) What is the role of environment variables?

d) What do you mean FTP?

e) What is the use of TELNET?

f) What is the difference between an Interface and an Abstract class?

g) What are pass by reference and pass by value?

h) What is static in java?

i) When my client connects to my server, why does no data come out?

j) How a socket is created?