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## Paper ID [B0123]

(Please fill this Paper ID in OMR Sheet)

**MCA (Sem. - 5<sup>th</sup>)**

**INTERNET PROGRAMMING AND JAVA (MCA - 502)**

**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**.

### **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) Write the basic structure of HTML?

(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

(1 × 10 = 10)

- 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

(10 × 2 = 20)

**Q9)**

- a) What is PPP?
- b) What is CGI?
- c) What is the role of environment variables?
- d) What do you mean FTP?
- e) What is the use of ECOM?
- f) What is the difference between an Interface and an Abstract class?
- g) What are pass by reference and passby 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?

