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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]

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)** Define internet and explain how the client server model helps in its operation.
- Q2)** Write a note on the following :
- (a) Portals.
 - (b) CGI programming.
 - (c) Environment variables.
 - (d) Slip.

Section - B

(1 × 10 = 10)

- Q3)** (a) Explain various E-Mail Protocols. Also describe the functioning of E-Mail with suitable example.
- (b) What are the various E-Mail message formats?
- Q4)** (a) What is FTP and why is it useful?
- (b) Explain the functions of TCP and IP.

Section - C

(1 × 10 = 10)

- Q5)** List some important features of java programming language. How java provides better application development environment than C++.
- Q6)** Explain the life cycle of an Applet. How applets are added to HTML? Discuss with help of example.

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Section - D

(1 × 10 = 10)

- Q7)** (a) What are the advantages of using proxy servers?
(b) What are the various methods of TCP/IP sockets?
- Q8)** Write a program to establish URL connection.

Section - E

(10 × 2 = 20)

- Q9)** a) Define www and state its advantages in brief.
b) How java is strongly associated with internet?
c) Describe garbage collection.
d) What is an email client?
e) What are exceptions?
f) Define UDP.
g) Write a note on NET NEWS.
h) Define JDBC.
i) Can you cast an int to an int or float to a float.
j) What is the need of internet routing protocols?

