SEMESTER EXAMINATION-2021
CLASS -MCA VTH SEMESTER   SUBJECT- COMPUTER SCIENCE
PAPER CODE: MCA-C502   PAPER TITLE: ADVANCED JAVA PROGRAMMING

Time: 3 hours   **Max. Marks: 70**
                                                                            Min. Pass: 40%

Note: Question Paper is divided into two sections: **A and B.** Attempt both the sections as per given instructions.

SECTION-A (SHORT ANSWER TYPE QUESTIONS)

Instructions: Answer any five questions in about 150 words   (5 X 6 = 30 Marks)
each. Each question carries six marks.

Question-1: Explain How Java programming language is suitable for web programming?

Question-2: What do you mean by Structured language and Scripting language.

Question-3: What do you mean by distributed application in java programming?

Question-4: How to create JAR file in Java? Explain with example.

Question-5: What is the difference between extends and implements keyword in Java?

Question-6: What is the Java script and also List down its advantages?

Question-7: What is RMI in Java?

Question-8: What do you mean by socket programming?

Question-9: What is a thread? Describe the complete life cycle of thread.

Question-10: Explain how Java programs are executed by the JVM? What gives Java its "write once and run anywhere" nature?

SECTION-B (LONG ANSWER TYPE QUESTIONS)

Instructions: Answer any FOUR questions in detail. Each   (4 X 10 = 40 Marks)
question carries 10 marks.

Question-11: Explain Java Streaming.? Also Distinguish between
  i)   Inputstream and Reader classes
  ii)   Outputstream and Writer classes

Question-12: Explain the following terms with respect to exception handling.
 i) try   ii) catch   iii) throw   iv) finally.

Question-13: What do you mean by Protocol handler and its application.

Question-14: How data and SQL are important in java programming. Explain
  i)   Server-side Java.
  ii)   Metadata database

Question-15: Write short note on Java Beans with suitable example.

Question-16: What is the Java Collection framework? List down its advantages?

Question-17: Write down the necessary steps needed for JDBC.

Question-18: Explain the following terms with respect to networking.
i) TCP/IP   ii) HTTP   iii) URL   iv) CGI script

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