Roll No

Total No. of Pages : 02

Total No. of Questions : 09

MCA (2013 & 2019 Batch) (Sem.-3) JAVA PROGRAMMING Subject Code : MCA-304 M.Code : 70775

Time : 3 Hrs.

Max. Marks : 100

INSTRUCTION TO CANDIDATES :

- 1. SECTIONS-A, B, C & D contains TWO questions each carrying TWENTY marks each and students has to attempt any ONE question from each SECTION.
- 2. SECTION-E is COMPULSORY consisting of TEN questions carrying TWENTY marks in all.

SECTION-A

- 1. What are the various characteristics of Java language? Discuss with the help of suitable examples.
- 2. Create a DATE class in java having day, month and year data members. Create constructors for initializing data members, functions for validating date, getting values of data members and displaying the date.

SECTION-B

- 3. What is Inheritance? Explain various types of inheritance with suitable examples.
- 4. What is a Stream? Describe the major tasks of input and output stream classes. Also distinguish between the following:
 - a. InputStream and Reader classes
 - b. OutputStream and Writer classes

SECTION-C

- 5. What is an Applet? What are the types of applets in Java? Explain how parameters are passed to applets?
- 6. What are the basic steps for using JDBC to access a database? Explain briefly with syntax.

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SECTION-D

- 7. What are Java Servlets? Explain life cycle of a Servlet.
- 8. What is a Socket? What is the difference between TCP and UDP sockets? Discuss the various methods associated with TCP and UDP in brief.

SECTION-E

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9. Write briefly :

- a) Define method overriding.
- b) Differentiate between Java and C++.
- c) What is Prepared Statement?
- d) What is a Friend function? What is its purpose?
- e) What is the difference between containership and inheritance?
- f) What do you mean by an time exception? Do they need to be declared?
- g) What are the advanages of using JSP over Servlets?
- h) What is a Constructor? How is a constructor different from a method?
- i) What are JSP implicit objects?
- j) What is JDBC-ODBC bridge?

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.

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