Sub Code: RCAI503

Paper Id: 206313 Roll No: | | | | | | | | | | | | | |

MCA (Integrated)
(SEM V) THEORY EXAMINATION 2019-20
JAVA PROGRAMMING

Time: 3 Hours ***Total Marks: 70***

Note: 1. Attempt all Sections. If require any missing data; then choose suitably.

SECTION A

1. Attempt *all* questions in brief. 2 x 7 = 14

(a)	Enlist the protocol names used for sending and receiving E-Mail?
(b)	What do you mean by VOIP?
(c)	Explain the term socket.
(d)	Is JDK or JRE same or different?
(e)	What is RPC?
(f)	What do you understand by Layout Manager in Java?
(g)	How is Applet different from normal Java program?

SECTION B

2. Attempt any *three* of the following: 7 x 3 = 21

(a)	What is E-mail security and why it is necessary?
(b)	What is Java? Compare C++ with Java.
(c)	What is the difference between COM/DCOM and RMI/CORBA?
(d)	What is thread? Explain life cycle of a thread with proper diagram.
(e)	What do you mean by Encapsulation? Explain with an example.

SECTION C

3. Attempt any *one* part of the following: 7 x 1 = 7

(a)	What are the various hardware and software requirements of video conferencing?
(b)	Explain the following terms: i). Internet Service Provider ii). Backbone Service Provider iii). Network Access Point Operator.

4. Attempt any *one* part of the following: 7 x 1 = 7

(a)	What do you understand by abstract class? How do we benefit by defining a class as an abstract class?
(b)	What is the meaning of "throwing an exception"? When does an exception throw?

5. Attempt any *one* part of the following: 7 x 1 = 7

(a)	Describe different types of Layout Manager used in Java using example
(b)	What do you understand by event handling in Java? Give an example of any event like mouse event, keyboard event and windows events.

6. Attempt any *one* part of the following: 7 x 1 = 7

(a)	What is Java Bean? Differentiates Java Bean with Enterprise Java Bean.
(b)	Write a JDBC program to display record from MySQL database table "Employee" where emp_id is greater than 20 and less than 99.

7. Attempt any *one* part of the following: 7 x 1 = 7

(a)	What is servlet? Explain the life cycle of Servlet. Write a servlet program to display parameter post by an HTML page.
(b)	What do you mean by Cookie? Write a servlet program which sets some cookie on the client machine that must be expires within ½ hours.

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