

**MASTER OF COMPUTER APPLICATION
THIRD SEMESTER
PROGRAMMING WITH JAVA
MCA-305**

Duration: 3 Hrs.

Marks: 70

PART : A (OBJECTIVE) = 20
PART : B (DESCRIPTIVE) = 50

[PART-B : Descriptive]

Duration: 2 Hrs. 40 Mins.

Marks: 50

[Answer question no. One (1) & any four (4) from the rest]

1. What are the uses of the keyword "super"? Write a program in java using super to call super class constructors. (10)
2. What is method overriding? Write a program in java to explain method overriding. (10)
3. What is an exception? Explain the use of keywords "throw" and "throws". Write a java program to handle an arithmetic exception divide by zero. (10)
4. What do you mean by thread in java? Write a program in java to implement producer and consumer problem synchronizing their operation so that the producer will not produce the next item until the current is consumed by the consumer. (10)
5. What is AWT? Write a java program to create three buttons labeled "Yes", "No" and "Undecided". Each time one button is pressed, a message is displayed that reports what button has been pressed. (10)
6. Write a java program to create a GUI for capturing student name, course name, and roll no. In the GUI there are two buttons one for save and another one for display. Write coding for display and save button considering the database in mysql. (10)
7. What is network Socket? Write a java program to connect to a "whois" port on the InterNIC server and then sends the command-line-argument down the socket, and finally print the data that is returned. (10)
8. What do you mean by servlets? Write a servlet program to read the names and values of parameter that are included in a client request. And these parameters are output to client. Write the html code for the client request. (10)

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[PART-A : Objective]

Choose the correct answer from the following :

1×20=20

1. Which of the class is used to encapsulate IP address and DNS?
 - a. DatagramPacket
 - b. URL
 - c. InetAddress
 - d. ContentHandler
2. Which of these is a protocol for breaking and sending packets to an address across a network?
 - a. TCP/IP
 - b. DNS
 - c. Socket
 - d. Proxy Server
3. Which of these is a full form of DNS?
 - a. Data Network Service.
 - b. Data Name Service.
 - c. Domain Network Service.
 - d. Domain Name Service.
4. Which of these is a type of stream in java?
 - a. integer stream
 - b. short stream
 - c. byte stream
 - d. long stream
5. Which of these packages contains all the classes and methods required for even handling in java?
 - a. java.applet
 - b. java.awt
 - c. java.event
 - d. java.awt.event
6. Which of these methods are used to register a mouse motion listener?
 - a. addMouse()
 - b. addMouseListener()
 - c. addMouseMotionListener()
 - d. eventMouseMotionListener()
7. Which of the access specifier can be used for a class so that its member can be accessed by a different class in the same package?
 - a. Public.
 - b. Protected.
 - c. No modifier.
 - d. All of the mentioned.
8. Which of the following can be used to fully abstract a class from its implementation?
 - a. Object
 - b. Package
 - c. Interface
 - d. None of the above
9. Which of the following keyword is used by a class to use an interface defined previously?
 - a. Import
 - b. Implements
 - c. Static
 - d. Interface
10. Which of this keyword is not a part of exception handling?
 - a. Thrown
 - b. Try
 - c. Catch
 - d. Finally
11. What is multithreading programming?
 - a. It's a process in which two different processes run simultaneously.
 - b. It's a process in which two or more parts of the same process run simultaneously.
 - c. It's a process in which many different processes able to access the same information.
 - d. It's a process in which a single process can access information from different sources.
12. Which of the following statements about the Java language is true?
 - a. Java supports only procedural approach towards programming.
 - b. Both procedural and object oriented programming are supported in java.
 - c. Java supports only object oriented programming approach.
 - d. None of the above.
13. Thread Priority in java is:
 - a. Long
 - b. Float
 - c. Double
 - d. Integer
14. Which of these methods is used to implements Runnable interface?
 - a. run()
 - b. start()
 - c. runThread()
 - d. stopThread()



15. JRE stands for:
 - a. Java Real Environment.
 - b. Java Real Enterprise.
 - c. Java Runtime Environment.
 - d. None of the above.

16. Which keyword will be used to inherit a class?
 - a. super
 - b. This
 - c. Extent
 - d. Extends

17. Which keyword is used to call the superclass constructor?
 - a. super
 - b. This
 - c. Extent
 - d. None of these

18. The command javac:
 - a. Convert a java program into binary code.
 - b. Convert a java program into machine language.
 - c. Convert a java program into byte code.
 - d. None of the above.

19. Two packages that are required to build servlets:
 - a. javax.servlet and javax.http.servlet
 - b. javax.servlet and javax.servlet.http
 - c. java.servlet and javax.http.servlet
 - d. java.servlet and java.http.servlet

20. JVM stands for:
 - a. Java Verified Machine.
 - b. Java Very Large Machine.
 - c. Java Virtual Machine.
 - d. Java Very Small Machine.

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Course :

Semester : Roll No :

Enrollment No : Course code :

Course Title :

Session : 2017-18 Date :

Instructions / Guidelines

- The paper contains twenty (20) / ten (10) questions.
- Students shall tick (✓) the correct answer.
- No marks shall be given for overwrite / erasing.
- Students have to submit the Objective Part (Part-A) to the invigilator just after completion of the allotted time from the starting of examination.

Full Marks	Marks Obtained
20	

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Scrutinizer's Signature

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Examiner's Signature

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Invigilator's Signature