**MSDB01/MTCSE16B1**

**MODEL QUE PAPERS**

**M.TECH**

**IV Semester**

**SPE: (OBJECT ORIENTED SOFTWARE DEVELOPMENT)**

**JAVA 2 PROGRAMMING**

Time: 3 Hours Max. Marks: 75

 ***INSTRUCTIONS:***

* *Question paper is divided into three groups.*
* *Each group is of 25 marks.*
* *Figure to the right in bracket indicates mark.*
* *Assume suitable data if necessary.*

**GROUP A : Answer any three questions. (Question No. 1 is compulsory)**

Q.1 Explain routers, terminators, NIC. (05)

Q.2 Define stream and explain all types of streams. (10)

Q.3 What is a java Bean? Explain the advantages of Java beans. (10)

Q.4 What is an interface? Describe various forms of implementing interfaces.

Give example of java code for each case. (10)

Q.5 What is a package? How do we add a class to a package? (10)

**GROUP B : Answer any three questions. (Question No. 6 is compulsory)**

Q.6 Write a program for sorting of an array. (05)

Q.7 Explain 3 Tier Architechure. (10)

Q.8 Explain the following terms: (10)

 (i) Referential Integrity

(ii) Metadata

 (iii) Data warehouse

(iv) Dependency

Q.9 Explain concept of JVM, How byte code is compiled by JVM. Explain portability in detail. (10)

Q.10. Write a program to draw a triangle using draw polygon ( ) method of the Graphics class. Discuss Graphics class (10)

**GROUP C: All Questions are Compulsory.**

**Q.11 Fill in the blanks (Each question carries 2 marks)**

(i) TCP stands for\_\_\_\_\_\_\_\_\_\_.

(ii) Home interface defines the methods for locating \_\_\_\_\_\_\_\_\_\_.

(iii) Declaring a method \_\_\_\_\_\_\_\_\_\_\_\_guarantees that the deadlock cannot occur.

(iv) Every method of a final class is implicitly\_\_\_\_\_\_\_\_\_\_.

(v) Members of a class specified, as \_\_\_\_\_\_\_\_ are accessible only to the methods of the class.

**Q.12 Multiple choice question. (Each question carries 2 marks)**

(i) Menus can be created and placed on top of \_\_\_\_\_\_\_\_\_.

(a) Side bar

(b) Desktop

(c) Manu bar

(d) Task bar

(ii) Importing package we used keyword \_\_\_\_\_\_\_\_\_.

 (a) Manage

 (b) Create

 (c) Package

 (d) Import

(iii) A \_\_\_\_\_\_\_\_ is an endpoint for communication between two machines.

 (a) Thread

 (b) Socket

 (c) Process

 (d) None of these

(iv) Double data type consumes\_\_\_\_\_\_\_\_\_\_ bits.

 (a) 8

 (b) 32

 (c) 64

 (d) None of these

(v) The internet is the huge inter network of \_\_\_\_\_\_\_\_ networks.

 (a) Packet switching

 (b) Circuit switching

 (c) Both

 (d) None of these

**Q.13 True or false (Each question carries 1 marks)**

(i) Update command is used to delete records.

(ii) Reader class has a method that can read and return floats and doubles.

 (iii) Throwing an Exception always cause program termination.

(iv) A method declared as static cannot access non-static class members.

(v) Objects are passed to a method by use of call-by-reference.

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