

## MODEL QUESTION PAPER

### DIPLOMA IN COMPUTER ENGINEERING/HARDWARE ENGINEERING OBJECT ORIENTED PROGRAMMING

Time : 3 Hour

Max.Marks : 75

#### Part A

**I. Answer all the following questions (9 x 1 = 9 Marks)**

1	Choose an example for JAVA IDE A.Notepad B.JAVAC C.JVM D.Netbeans	M1.02	R
2	List any two types of constructors in JAVA	M1.06	R
3	Which of the following is not an oops concepts in Java ? A.Inheritance B.Encapsulation C.Polymorphism D.Compilation	M1.01	U
4	Show the method to restrict a member of a class from inheriting to it's sub classes.?	M2.05	U
5	Define abstract class	M2.06	R
6	Which package is imported by default in JAVA A.lang B.util C.JAVA D.awt	M2.08	R
7	Tell an example for a container in GUI A.button B.component C.frame D.class	M3.02	R
8	Relate the method used to register a keyboard event listener	M3.04	U
9	Define JDBC	M4.03	R

#### Part B

**II. Answer any 8 questions from the following. Each question carries 3 marks.  
(8 x 3 = 24 Marks)**

1	Tell the general structure of a JAVA program	M1.03	R
2	Compare method overloading and overriding	M1.06	U
3	Show exception handling in JAVA	M1.12	U
4	Construct a JAVA class to represent the heightof any real-world object in feet and inch. Also include proper member method to read the height.	M1.04	A

5	Write the steps to create a package in JAVA	M2.08	R
6	Tell the main uses of the super keyword?	M2.02	R
7	“Multiple inheritance is not supported in JAVA”. Explain the reason	M2.01	U
8	Define source and listener with respect to event-handling	M3.02	R
9	Write suitable statements for creating a frame, label and text box using Java swing.	M3.06	U
10.	List any3 SQL statements with syntax.	M4.02	R
<b>Part C</b>			
<b>Answer all questions. Each question carries 7 marks. (6 x 7 = 42 Marks)</b>			
III	Explain static methods and variables in JAVA	M1.08	R
OR			
IV	List and explain various constructors used in JAVA	M1.06	R
V	Define a method to find the area of a rectangle. Overload it to find the area of a Square.	M1.09	A
OR			
VI	Compare constructors and methods in JAVA	M1.04 M1.08	U
VII	List and explain various access specifiers in JAVA	M2.05	R
OR			
VIII	Define the following A. Abstract class B. Final Class C. Abstract method	M2.06	R
IX	Program segment below will result compilation error. Modify the code by including or changing necessary statements. class X { //Class X Members }  class Y { //Class Y Members }	M2.07	U

	<pre> class Z extends X, Y {     //Class Z Members } </pre>		
OR			
X	Class student contains register number and name. Derive class internal from student and having data numbers internal marks of three subjects. Derive another class external from internal having data member's external marks of three subjects. Write a java program using multilevel inheritance to print the mark list of students.	M2.01	A
XI	List and explain the methods of mouse Listener interface in JAVA	M3.04	R
OR			
XII	Write a JAVA swing program to find the sum of two numbers. Use proper swing components.	M3.06	U
XIII	List the steps to connect to a MYSQL database in JAVA	M4.04	R
OR			
XIV	Explain the steps to perform a SQL select query from JAVA	M4.05	U

**Blue Print**  
**Mark Distribution**

Module	hr / Module	Marks/Module ( $\sum H_i$ ) * 123 ( $\pm 5\%$ )	Type of Questions							
			Part A		Part B		Part C		Total	
			No of Questions	Marks	No of Questions	Marks	No of Questions	Marks	No of Questions	Marks
1	16	34	3	3	4	12	4	28	11	43
2	16	34	3	3	3	9	4	28	10	40
3	14	30	2	2	3	9	2	14	7	25
4	12	25	1	1	1	3	2	14	4	18
Total	58	123	9	9	11	33	12	84	32	

**Blue Print**  
**Cognitive Level Mark Distribution**

<b>Cognitive Level</b>	<b>Marks</b>	<b>% of Marks</b>
Remembering	63	51
Understanding	43	35
Applying	17	14
Analysing		
Evaluating		
Creating		
<b>Total</b>	123	