

Enrollment No.....



**Faculty of Engineering**  
**End Sem (Even) Examination May-2022**  
**OE00082 Advanced Object Oriented Programming**  
 Programme: MCA                      Branch/Specialisation: Computer  
 Application

**Duration: 3 Hrs.****Maximum Marks: 60**

Note: All questions are compulsory. Internal choices, if any, are indicated. Answers of Q.1 (MCQs) should be written in full instead of only a, b, c or d.

- Q.1 i. >>> operator is- 1  
 (a) Logical (b) Relational (c) Bitwise (d) None of these
- ii. Symbol of Short – Circuit OR operator- 1  
 (a) | (b) || (c) & (d) &&
- iii. If a data member is public, it will be accessible in- 1  
 (a) Same class (b) Same file  
 (c) Same package (d) All of these
- iv. Pick the right syntax to allocate memory to an object obj of class A- 1  
 (a) A obj; (b) A obj =new A();  
 (c) A obj=obj() (d) None of these
- v. If a method is final in java, then method can't be- 1  
 (a) Overridden (b) Inherited  
 (c) Both (a) and (b) (d) None of these
- vi. Default members can be accessible in- 1  
 (a) Same package (b) Different package  
 (c) Both (a) and (b) (d) None of these
- vii. X – AXIS and Y- AXIS exist in- 1  
 (a) BoxLayout (b) GridLayout  
 (c) Both (a) & (b) (d) None of these
- viii. executeUpdate( ) returns- 1  
 (a) boolean (b) int (c) float (d) char
- ix. Expression is expressed using tag- 1  
 (a) <%= %> (b) <%-- %> (c) <%@ %> (d) <% %>

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- x. Out implicit object is of type- 1  
 (a) JspWriter (b) Object (c) Throwable (d) None of these
- Q.2 i. Write any four features of java. 2  
 ii. Write a java program to find a number is palindrome or not. 3  
 iii. Write a java program for Linear Search. 5
- OR iv. Write a program to convert a string to lowercase and uppercase. 5
- Q.3 i. What is the use of default and protected access specifiers in java? 2  
 ii. Write complete java program for finding area of circle, rectangle and triangle using method overloading. 8
- OR iii. Make a class student having member variables roll\_no and name and member functions getData() and putData() to take the data from user and print on the output screen. 8
- Q.4 Attempt any two: 5  
 i. Explain inheritance and its types. 5  
 ii. Write complete program for interface. 5  
 iii. Name any five wrapper classes and its important methods. 5
- Q.5 i. Explain JFrame, JPanel and JButton with example. 3  
 ii. Write java code to delete a row from database table. 7
- OR iii. Write java code to insert a row to database table. 7
- Q.6 Attempt any two: 5  
 i. Explain JSP Scripting elements—comments, Declaration, Scriptlet, expression and directive. 5  
 ii. Write a program for Calling a jsp from another jsp using response.sendRedirect (Calling a JSP by URL). 5  
 iii. Write a program for Login page, show user name and password on next page when user exist in database table, otherwise show message on same page 5

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## Marking Scheme OE00082 Advanced Object Oriented Programming

Q.1	i.	>>> operator is-		<b>1</b>	Q.3	i.	Default access specifiers	1 Mark	<b>2</b>
		(c) Bitwise	1 Mark				Protected access specifiers	1 Mark	
	ii.	Symbol of Short – Circuit OR operator-		<b>1</b>		ii.	Main method	2 Marks	<b>8</b>
		(b)	1 Mark				Definition of area method of circle	2 Marks	
	iii.	If a data member is public, it will be accessible in-		<b>1</b>			Definition of area method of rectangle	2 Marks	
		(d) All of these	1 Mark				Definition of area method of triangle	2 Marks	
	iv.	Pick the right syntax to allocate memory to an object obj of class A-		<b>1</b>	OR	iii.	Main method	2 Marks	<b>8</b>
		(b) A obj =new A();	1 Mark				Class declaration	2 Marks	
	v.	If a method is final in java, then method can't be-		<b>1</b>			getData() definition	2 Marks	
		(a) Overridden	1 Mark				putData() definition	2 Marks	
Q.2	vi.	Default members can be accessible in-		<b>1</b>	Q.4		Attempt any two:		
		(a) Same package	1 Mark			i.	Inheritance definition	1 Mark	<b>5</b>
	vii.	X – AXIS and Y- AXIS exist in-		<b>1</b>			Its types.	4 Marks	
		(a) BorderLayout	1 Mark			ii.	Main method	2 Marks	<b>5</b>
	viii.	executeUpdate( ) returns-		<b>1</b>			Interface declaration	1 Mark	
		(b) int	1 Mark				Class implementing interface	2 Marks	
	ix.	Expression is expressed using tag-		<b>1</b>		iii.	5 wrapper classes and its methods	1 Mark each	<b>5</b>
		(a) <%= %>	1 Mark					(1 Mark*5)	
	x.	Out implicit object is of type-		<b>1</b>					
		(a) JspWriter	1 Mark		Q.5	i.	JFrame	1 Mark	<b>3</b>
OR	i.	Four features of java		<b>2</b>			JPanel	1 Mark	
		0.5 Mark each	(0.5 Mark*4)				ZButton	1 Mark	
	ii.	Program to find a number is palindrome or not.		<b>3</b>		ii.	Variable declaration	1 Mark	<b>7</b>
		Variable declaration and scanning	1 Mark				Data base connectivity	2 Marks	
		Loop	2 Marks				Delete method	4 Marks	
	iii.	Linear Search.		<b>5</b>	OR	iii.	Variable declaration	1 Mark	<b>7</b>
		Variable declaration and scanning	2 Marks				Data base connectivity	2 Marks	
		Search	2 Marks				Insert method	4 Marks	
		Output print	1 Mark		Q.6		Attempt any two:		
	iv.	Convert a string to lowercase and uppcase.		<b>5</b>		i.	Comment	1 Mark	<b>5</b>
		Convert to lowercase	2 Marks				Declaration	1 Mark	
		Convert to uppcase	2 Marks				Scriptlet	1 Mark	
		Output print	1 Mark						

	Expression	1 Mark	
	Directives	1 Mark	
ii.	JSP1, JSP2	2.5 Marks	<b>5</b>
	Calling	2.5 Marks	
iii.	Login page, Database connectivity	4 Marks	<b>5</b>
	Right message	1 Mark	

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