

Faculty of Engineering

End Semester Examination May 2025

OE00082 Advanced Object Oriented Programming

Programme	: MCA / BCA-MCA (Integrated)	Branch/Specialisation	: All
Duration	: 3 hours	Maximum Marks	: 60

Note: All questions are compulsory. Internal choices, if any, are indicated. Assume suitable data if necessary.
Notations and symbols have their usual meaning.

Section 1 (Answer all question(s))			Marks CO BL
Q1. What is the incorrect way to declare and initialize an array?	1 1 2	<input type="radio"/> int[] a = {1,2,3} <input checked="" type="radio"/> int a[3] = {1,2,3} <input type="radio"/> None of these	
Q2. What will be the output of the code below?	1 2 2	<input type="radio"/> 12345 <input type="radio"/> None of these	
<pre>int I=1; while(1) { if(I<=5) break; System.out.print(i); i++; }</pre> <input type="radio"/> 1234 <input checked="" type="radio"/> Error			
Q3. What is correct about default access specifier?	1 1 2	<input type="radio"/> It is accessible only in the class in which it is declared. <input checked="" type="radio"/> It is accessible only in the same package in which it is declared. <input type="radio"/> It is accessible all over.	
Q4. What is incorrect about constructors?	1 1 2	<input type="radio"/> It is used for startup activities <input type="radio"/> It has no return type <input checked="" type="radio"/> It is used to initialize instance variables <input checked="" type="radio"/> It must have parameters	
Q5. Final keyword is used for _____. <input type="radio"/> Declaring constants <input type="radio"/> Declaring a method that can not be overridden.	1 1 1	<input type="radio"/> Declaring a class that can not be inherited <input checked="" type="radio"/> All of the these	
Q6. Which inheritance is not allowed in Java? <input type="radio"/> Hierarchical <input checked="" type="radio"/> Multilevel	1 1 1	<input type="radio"/> Single <input checked="" type="radio"/> Multiple	
Q7. Which layout contains NORTH, SOUTH, EAST, WEST, and CENTER constants? <input type="radio"/> FlowLayout <input checked="" type="radio"/> BorderLayout	1 1 1	<input type="radio"/> GridLayout <input type="radio"/> BoxLayout	
Q8. Method use to change the text of button at runtime? <input checked="" type="radio"/> setText() <input type="radio"/> text()	1 2 1	<input type="radio"/> getText() <input type="radio"/> None of these	

Q9. How will you write comments in JSP?

1 2 1

- <% %>
 <%-- --%>
 <%@ %>

Q10. Which of the following is not an implicit object?

1 1 1

- Out
 In
 Request Response

Section 2 (Answer all question(s))

Q11. Write a program to search for an element from an array.

Marks CO BL

4 2 3

Rubric	Marks
Input the array. Search an element	4

Q12. (a) What are the different control statements that exist in Java? Explain by examples.

6 3 1

Rubric	Marks
Control Statements Examples of Control Statements.	6

(OR)

- (b)** Explain in brief any 6 methods used for string operations.

Rubric	Marks
Brief of 6 methods.	6

Section 3 (Answer all question(s))

Marks CO BL

Q13. Write any four features of object oriented programming.

4 1 1

Rubric	Marks
Each feature 1 mark.	4

Q14. (a) Write a program to overload the area method to calculate the area of the circle, square, and rectangle.

6 2 1

Rubric	Marks
The main class will call overloaded methods. Overload methods	6

(OR)

- (b)** Draw a chart explaining the accessibility of access specifiers at different places.

Rubric	Marks
Complete Chart	6

Section 4 (Answer all question(s))

Marks CO BL

3 1 2

Q15. What is the use of the interface?

Rubric	Marks
explanations.	3

Q16. (a) Write a program for multilevel inheritance.

7 2 3

Rubric	Marks
Write a program for multilevel inheritance.	7

(OR)

(b) Write a program for method overriding.

Rubric	Marks
Main class	7
Other classes	

Section 5 (Answer any 2 question(s))

Marks CO BL

Q17. Write a program using BorderLayout. Draw output screen also.

5 2 1

Rubric	Marks
Program using BorderLayout Output Screen.	5

Q18. Explain the delegation event model. Draw the diagram.

5 3 2

Rubric	Marks
Delegation Event Model. Diagram.	5

Q19. Write a Java program to copy one TextField into another. Draw the output screen.

5 2 3

Rubric	Marks
Java program to copy one TextField into another. Draw the output screen.	5

Section 6 (Answer any 2 question(s))

Marks CO BL

Q20. What are JSP scripting elements? Explain each in brief.

5 5 2

Rubric	Marks
Any 5 JSP scripting elements.	5

Q21. How will you call one JSP from another JSP using Form action and RequestDispatcher?

5 5 1

Rubric	Marks
Form action RequestDispatcher	5

Q22. Write a JSP program to find out which checkbox is selected among multiple checkboxes.

5 5 1

Rubric	Marks
Complete JSP program.	5
