## **ANURAG Engineering College**

(An Autonomous Institution)

## II B.Tech II Semester Supplementary Examinations, December -2024

## JAVA PROGRAMMING (INFORMATION TECHNOLOGY)

Time:	Time: 3 Hours		Max.Marks:60		
Section – A (Short Answer type questions) Answer All Questions		Course	B.T	Marks) Marks	
1.	List the features of JAVA.	Outcome CO1	Level L1	1M	
2.		CO1	L1	1M	
3.	•	CO2	L1	1M	
3. 4.	71 1	CO2	L1	1M	
4.	JAVA?	CO2	ы	1171	
5.	Write the use of CLASSPATH.	CO3	L1	1 <b>M</b>	
6.	Write about the use of default access specifier in JAVA.	CO3	L1	1M	
7.		CO4	L1	1M	
8.	*	CO4	L1	1M	
9.	Write the limitations of AWT.	CO5	L1	1M	
10.		CO5	L1	1M	
	Section B (Essay Questions)				
Answe 50M)	ver all questions, each question carries equal marks.		$(5 \times 10M =$		
11. Á)	i) Summarize the key concepts of OOP and explain.	CO1	L2	5M	
11.71)	ii) Develop a program to enter the marks of a student in four subjects. Then calculates the total and aggregate, and display the grade obtained by the student. If the student scores an aggregate greater than 75%, then the grade is Distinction. If aggregate is 60>= and <75, then the grade is First Division. If aggregate is 50>= and <60, then the grade is Second Division. If aggregate is 40>= and < 50, then the grade is Third Division. Else the grade is Fail.	CO1	L3	5M	
D)	OR	GO1	Ι.Ο.	5) /	
В)	i) "A super class reference variable can refer to a sub class object". Interpret this statement with an example program.	CO1	L2	5M	
	ii) Identify the use of super keyword to call the parent class constructor (parameterized) with an example program.	CO1	L3	5M	
12. A)	i) Infor the use of theory a level with an example magnet	CO2	L2	5M	
12. A)	<ul><li>i) Infer the use of throws clause with an example program.</li><li>ii) Develop a JAVA program to merge the contents of two files into</li></ul>	CO2	L3	5M	
	another file.				
D)	OR  i) Explain the precedure of creating year defined expentions in	CO2	ТO	51 A	
В)	i) Explain the procedure of creating user defined exceptions in JAVA.	CO2	L2	5M	
	ii) Outline the advantage of File class. Explain with appropriate example.	CO2	L2	5M	

13. A)	i) Illustrate the procedure of creating and importing packages in JAVA with example.	CO3	L2	5M		
	ii) Suppose the input is '1 2 3 4 5 6 7 8 9 10'. Construct a JAVA program to print the sum of even numbers from the given input. Use appropriate methods of StringTokenizer class to divide the input into tokens.	CO3	L3	5M		
OR						
В)	<ul><li>i) Illustrate the use of LinkedList class with an example program.</li><li>ii) Interpret the use of comparator interface with an example program.</li></ul>	CO3 CO3	L2	5M 5M		
14. A)	i) Give Overrievy of IDDC englishes with most discuss. English	004	т.о.	<i>5</i> 3. <i>6</i>		
14. A)	i) Give Overview of JDBC architecture with neat diagram. Explain.	CO4	L2	5M		
	ii) How thread communication can be achieved in JAVA. Explain.  OR	CO4	L2	5M		
B)	i) Do threads have priorities? How can thread priorities affect the execution of a program? Explain.	CO4	L2	5M		
	ii) Develop a JAVA code to accept employee number of an employee and retrieve details such as employee number, name, salary from database. Assume appropriate table.	CO4	L3	5M		
15. A)	i) Explain MVC architecture.	CO5	L2	5M		
	ii) Explain GridLayout manager with an example program.  OR	CO5	L2	5M		
B)	i) List different types of event classes in JAVA and explain briefly.	CO5	L2	5M		
	ii) Develop a JAVA program that handles any one mouse event using Adapter class.	CO5	L3	5M		