No. of Pages: 2 Course Code: C18502/Z18401

Roll No.:

(To be filled in by the candidate)

PSG POLYTECHNIC COLLEGE, COIMBATORE - 641 004 SEMESTER EXAMINATIONS, FEB 2022 DIP - DCN/DCE SEMESTER: 5/4

C18502/Z18401 - JAVA PROGRAMMING

Time: 3 Hours Max. Marks: 75

Instructions:

- 1. Answer All Questions either (a) Division or (b) Division.
- 2. Each question carries 15 marks.
- 3. Division (a) and (b) has three subdivisions (i), (ii) and (iii) which carries 2 marks, 3 marks and 10 marks respectively.

Q. No.	Div.	Sub. div.	Questions	Bloom's Taxonomy	Marks	Total Marks	Course outcome
	а	i	To what does paradigm java belong? Why?	А	2		
		ii	What are the constituents of java environment?	R	3		
		iii	Explain the steps involved in creating and executing a java program.	U	10		
	b	i	Brief on java expression and evaluate the expression 5+8/(3+1) +12*4+3.	А	2	15	CO 1
1		ii	Find the value of i and sum in the following code: sum=0; for(i=0;i<5;i++) { sum=sum+i; } System.out.println(i); System.out.println(sum);	А	3		
		iii	Write a program to convert to a string in lowercase to uppercase.	R	10		
	а	i	What is a string constructor? How to create an empty string using this?	А	2		
		ii	Briefly explain visibility controls.	R	3		
		iii	Write a program to demonstrate the multiple inheritance using interface for your polytechnic college system.	А	10		
2		15	CO 2				
	b	i	Mention the name of the operator used to call methods using objects.	R	2		
		ii	What do you mean by the term 'final'? Give the syntax for final class with an example.	U	3		
		iii	Explain the steps involved in creating objects with a sample code.	А	10		

No. of Pages: 2 Course Code: C18502/Z18401

					coue.c.	,	
		i	What are packages? Classify its types.	R	2		
	а	ii	State the usage of the following java API packages: java.util, java.io and java.net	R	3		
		iii	Illustrate the steps involved in creating and accessing an user defined package with an example.	А	10		
3			OR		15	CO 3	
		i	Define asynchronous exceptions. Give two examples.	U	2		
	b	ii	Draw the hierarchical structure of exception classes.	Α	3		
		iii	With an example, explain exception handling with all block.	R	10		
		i	List the advantages of Multithreading.	R	2		
	а	ii	Draw the life cycle of a Thread.	U	3		
		iii	Develop a java program to demonstrate and print 2 nd ,5 th and 10 th tables using threads.	А	10		
4	OR					15	CO 4
		i	What do you mean by the terms "Event" and "Event handling"?	R	2		
	b	ii	Draw the hierarchy of input event class and specify all key events.	U	3		
		iii	Write a sample code to display the value of selected item in the JList and the type event generated for it.	А	10		
		i	What are clients and servers?	R	2		
	а	ii	Mention steps involved in establishing a simple server.	U	3		
		iii	Explain simple server interaction using datagram socket.	А	10		
5	OR					15	CO 5
	b	i	Expand JDBC and state the significance of JDBC.	Α	2		
		ii	List any three JDBC drivers with brief note on each.	R	3		
		iii	Discuss the seven steps to connect JDBC.	А	10		
					Total	75	