END TERM EXAMINATION

FOURTH SEMESTER [BCA] JULY 2023

Paper Code: BCA-202

Subject: Java Programming

(BATCH 2021 ONWARDS)

Time: 3 Hours

Maximum Marks: 75

Note: Attempt five questions in all including Q.No. 1 which is compulsory.

0	1 Ar		
Y	a)	nswer the following which ce modeled case (2.5x10)=25)
	b	Discuss three usage of a	
	c)	Mention various states of thread. Give suitable example. How the constructor is a suitable example.	
	d)		
	۵,	How multithreading is achieved in Java. Explain its advantages disadvantages.	and
	e)		
	ŋ		
	g)	mat are the foles of Java compiler and interpreter?	
	01	Explain Why the main function is declared as "Public static void (String args [])"?	main
	h)		
	i)	Je Cour unit I tim other machine level cours:	
	j)	What is the use of this, final and super keyword in Java.	la.
	37	Discuss process of synchronization of a thread with suitable example	ie.
Q2	2 a)	What is constructor? Does Java provide default constructor? Ex	mloin
		your answer with suitable example.	(O E)
	b)	Explain in details the features of Java.	(8.5)
	THE RE	1 was and reactives of oava.	(4)
Q3	(a)	Explain the concept of abstract classes in Java with suitable exa	mamla
		How abstract classes differ from interface.	
	b)	What are interfaces? What are their benefits? Give the general for	(9.5)
		class that implements interfaces.	
			(3)
04	- a)	Explain different access modifiers available in Java.	161
	b)	Differentiate between checked and unchecked exception. W	(6)
		program to illustrate user defined exception.	
			(6.5)
Q5	a)	Explain the life cycle of threads. Also explain different ways of cr	
		threads in java.	reating
	b)	Write a program to print the table of any no. inside the applet	(6.5)
		a program to print the table of any no. inside the applet	. (6)
Q6_	a	Discuss various Layout Managers available in AWT.	
	b)	Differentiate between Swing and AWT.	(6.5)
			100000
Q7	a)	How is method overland in a line	(6)
2,	aj	witchle are all overloading different from method	
	4.1	How is method overloading different from method overriding suitable example.	? Give
	b)	Write Short notes on the following:	(5)
		i) Adapter class	(7.5)
	i	ii) Applet and application program	
		ii) Check box and choice list	

Q8	a)	What is JDBC? Explain all JDBC drivers in detail.	(7.5)
	b)	Write short notes on Java Servlet.	(5)
	7		
Q9	at	Explain the following term with respect to exception handlin	g. (8.5)
-		1) Try true pois also	
		ii) Catch truephor with	
		iii) Finally	
		iv) Throw To are on exception	
	b)	Differentiate between JDBC and ODBC.	(4)
			(-)

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