Total No. of Questions: 6

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Enrollment No.....



Faculty of Engineering / Science

End Sem (Odd) Examination Dec-2022 CS3CO32 / BC3CO37 Java Programming

Programme: B.Tech./ Branch/Specialisation: CSE / Computer B.Sc. (CS) Science

Duration: 3 Hrs. Maximum Marks: 60

Note: All questions are of	compulsory. Intern	nal choices,	if any,	are indicated.	Answers of
Q.1 (MCQs) should be w	ritten in full inste	ad of only a	, b, c or	d.	

Q .1 (M	CQs) s	should be writt	en in full inste	ad of only a, b,	c or d.	
Q.1	i.	is use	d to find and f	ix bugs in the ja	ava programs.	1
		(a) JVM	(b) JRE	(c) JDK	(d) JDB	
	ii.	Which of the	following too	l is used to gen	erate API documentation	1
		in HTML for	rmat from doc	comments in se	ource code?	
		(a) javap too	1	(b) javaw co	mmand	
		(c) Javadoc t	tool	(d) javah co	mmand	
	iii.	Which option	n is false abou	t the final keyw	ord?	1
		(a) A final m	ethod cannot l	be overridden i	its subclasses	
		(b) A final cl	lass cannot be	extended		
		(c) A final cl	ass cannot ext	end other class	es	
		(d) A final m	nethod can be i	nherited		
	iv.	Which keyw	ord is used for	accessing the	eatures of a package?	1
		(a) Package	(b) Import	(c) Extends	(d) Export	
	v.	What is the v	alue returned	by function con	npareTo() if the invoking	1
		string is less	than the string	g compared?		
		(a) Zero		(b) Value le	ss than zero	
		(c) Value gre	eater than zero	(d) None of	these	
	vi.	What will be	the output of	the following p	rogram code?	1
		class test{				
		public static	void main(Str	ing args[]){		
		String s1=ne	w String("Hel	lo");		
		String s2=ne	w String(s1);			
		System.out.p	sintln(s1 = s)	2);		
		}}				
		(a) True	(b) False	(c) 0	(d) 1	
					рл	

P.T.O.

	vii.	Which of these keywords is no	ot a part of exception handling?	1
		(a) Try (b) Finally	(c) Thrown (d) Catch	
	viii.	What will be the order of outp	out of the program?	1
		class test extends Thread		
		{ public void run()		
		{System.out.println("Run");}	}	
		Class myclass{		
		public static void main(String	args[])	
		{ test t=new test();		
		t.start();		
		System.out.println("Main");		
		}}		
		(a) Main Run	(b) Run Main	
		(c) Depend upon Program	(d) Depend upon JVM	
	ix.	What is the name of the abstra	ct base class for streams dealing with	1
		character input?		
		(a) InputStream	(b) OutputStream	
		(c) Reader	(d) Writer	
	х.	Which is the container that do	pesn't contain title bar and menuBars	1
		but it can have other compone	ents like button,textfield etc?	
		(a) Window (b) Frame	(c) Panel (d) Container	
Q.2	i.	What is type casting? Explain	implicit and explicit type casting.	3
	ii.	What are the difference between		7
OR	iii.	Write features of java program		7
Ω^2	:	What is ious madrage? Event	sin how to anote and cooper a jove	4
Q.3	i.	package.	ain how to create and access a java	4
	ii.	Explain the various access spe	ecifiers used in java	6
OR	iii.	1	Shape with methods draw() and	6
		=	class called Circle and Rectangle that	
		e v	ite area of respective Shapes. Use	
			nethods. Write a java program for the	
		same.	, 1 C	
Q.4	i.	Describe the following metho	ds related to String	3
~ .,		(a) replace() (b) compareTo	_	
		· / I / / I	· · · · · · · · · · · · · · · · · · ·	

OR	ii. iii.	Write a program to sort 10 Strings according to length. What is StringBuffer class and StringBuilder class? What are the differences between StringBuffer and StringBuilder?	7 7
Q.5	i.	What is thread? What is the difference between a thread and a process?	4
	ii.	What is exception handling in java? Write program to handle number format exception.	6
OR	iii.	Write a program to create two threads, one thread will print odd numbers and second thread will print even numbers between 1 to 20 numbers.	6
Q.6		Attempt any two:	
	i.	Write a program to copy the contents of file1 to file2.	5
	ii.	What are applets? Explain in detail applet life cycle.	5
	iii.	What is the significance of layout managers? Discuss briefly various layout managers.	5

Marking Scheme CS3CO32 / BC3CO37 Java Programming

Q.1	i.	is used to find and fix bugs in the Java	1
		programs.	
		d) JDB	
	ii.	Which of the following tool is used to generate API	1
		documentation in HTML format from doc comments in	
		source code?	
		c) levades to al	
	iii.	C)Javadoc tool Which option is false about the final keyword?	1
	111.	Which option is false about the <i>final</i> keyword?	1
		c)A final class cannot extend other classes.	
	iv.	Which keyword is used for accessing the features of a	1
	1,,,	package?	1
		package	
		b)import	
	v.	What is the value returned by unction compareTo() if the	1
		invoking string is less than the string compared?	
		b) value less than zero	
	vi.	What will be the output of the following program code?	1
		class test{	
		public static void main(String args[]){	
		String s1=new String("Hello");	
		String s2=new String(s1);	
		System.out.println($s1 = s2$);	
		<pre>}} b)false</pre>	
	vii.	Which of these keywords is not a part of exception handling?	1
	V 11.	c)thrown	1
	viii.	What will be the order of output of the program?	1
		class test extends Thread	
		{ public void run()	
		{System.out.println("Run");}}	
		Class myclass{	
		public static void main(String args[])	
		{ test t=new test();	
		t.start();	
		System.out.println("Main");	

		d) Depend upon JVM	
	ix.	What is the name of the abstract base class for streams dealing with character input? c)Reader	1
	х.	Which is the container that doesn't contain title bar and menuBars but it can have other components like button,textfield etc? c) Panel	1
Q.2	i.	Define type casting (1 marks)? Explain implicit and explicit type casting.(each 1 marks)	3
	ii.	What are the difference between c,c++ and java?(At least 7 difference each 1 marks)	7
OR	iii.	Write a features of java programming language.(At least 7 features each 1 marks)	7
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Q.3	i.	What is java package (2 marks)? Explain how to create and access a java package.(1 marks each)	4
	ii.	Explain the various access specifiers are used in java.(each access specifier 1.5 marks)	6
OR	iii.	Design an interface called Shape with methods draw() and getArea(). Further design two class called Circle and Rectangle that implements Shape to compute area of respective Shapes. Use appropriate getter and setter methods. Write a java program for the same. Create interface and two class 2 marks, draw() and getArea() 2 marks and output of a program 2 marks	6
Q.4	i.	Describe the following methods related to String(1 marks each) a)replace() b) compareTo() c) charAt()	3
	ii.	Write a program to sort 10 String according to length?	7
OR	iii.	What is StringBuffer class (2 marks)and StringBuilder class(2 marks)? What are the difference between StringBuffer and StringBuilder? (3 marks)	7
Q.5	i.	What is thread(1 marks)? What is the difference between a thread and a process? (3 marks)	4
	ii.	What is Exception handling in java(2 marks)? Write program to handle number format exception.(4 marks)	6

OR	iii.	Write a program to create two threads, one thread will print odd numbers and second thread will print even numbers between 1 to	6
		20 numbers.	
Q.6		Attempt any two:	
	i.	Write a program to copy the contents of file1 to file2.	5
	ii.	What are applets? Explain in detail applet life cycle.(2 +3 marks)	5
	iii.	What is the significance of layout managers? Discuss briefly	5
		various layout managers. (2+3 marks)	
