Total No. o	f printed pages = 3	
CSE 181	404	
Roll No. of	candidate	
	2022	*
	B.Tech. 4th Semester End-Term Examina	ation
	Computer Science and Engineering	:
	JAVA PROGRAMMING	
	(New Regulation & New Syllabus)	
Full Marks	s - 7 0	Time – Three hours
	The figures in the margin indicate full ma for the questions. Answer question No. 1 and any four from the	
(i) (ii)	ver the following: (MCQ/Fill in the blanks): Arrays in java are (a) Object reference (b) Object (c) Primitive that a type (d) None Identify the corrected definition of a package (a) A package is collection of classes (b) A package is collection of classes and interfaces	(10 × 1 = 10)
	(c) A package is collection of interfaces	

(iii) Identify the keyword among the following that makes a variable belong to a class rather than being defined for each instance of the class.

(d) A package is collection of editing tools

- (a) Final
- (b) Volatile
- (c) Static
- (d) Abstract

(iv)	Which of the following exception is thrown is executed?	when divided	by zero statement

- (a) Arithmetic Exception
- (b) Null Pointer Exception
- (c) Number Format Exception
- (d) None of these
- (v) Identify the output of the following code:

String str = "abcde":

System.out.println(str .substring(1, 3));

- (a) Abc
- (b) bcd
- (c) bc
- (d) cdc

(vi) Which of the following is the valid syntax:

- (a) Char ch = new Char();
- (b) Char | ch = new Char | :
- (c) Char ch∏ = new Char(5);
- (d) Char []ch = new Char[5];

(vii) Which of the following is true?

- (a) "X extends Y" if and only if X is a class and Y is an interface
- (b) "X extends Y" if and only if X is an interface and Y is a class
- (c) "X extends Y" if X and Y are either both classes or both interfaces
- (d) "X extends Y" is correct for all combinations of X and Y being classes and/or interfaces

(viii) What is byte code in Java?

- (a) Code generated by java compiler
- (b) Code generated by java virtual machine
- (c) Name of java source code file
- (d) Block of code written inside a class

(ix) Which of these operators is used to allocate memory to array variable in Java?

- (a) Melloc()
- (b) Alloc
- (c) New
- (d) New melloc

	(:	x) Mo	dulus opera	stor (%) enr	be applied	to which	of these?		
		(a)	int						
		(b)		point numb	era				
		(c)	Both (a)						
		(d)	None of t	nese					
3	2. (a						aage. Explai		5)
	(b) Disc orie	cuss about nted progra	the various umming lar	important guage.	features e	xhibited by	java as an Object (10	
3	3. (a) Wha	at is an a _l let.	plet? Desc	ribe the d	ifferent s	tages in the	e life cycle of a $(2+3=5)$	
	(b)	Wha	it is an e	xception?	What are	checked	and unche	cked exceptions (2 + 3 = 5	
	(c)	Disc	uss briefly	about how	exceptions a	are handle	ed in Java.	(5	i)
4.	Di	lferenti	ate betwee	n:				$(3 \times 5 = 15$	5)
	(a)	Meth	od overloa	ding V s. M	ethod Over	riding		•	
	(b)	Appl	ication V s.	Applet					
	(c)	Class	Vs Interf	асе		•	22		
5.	(a)							an interface to uitable example (2 + 5 = 7)	
	(b)	What with	is a threa the state tr	d? Explair ansition di	a briefly a	pout le	different st	tates of a thread $(3 + 5 = 8)$	
6.	(a)	List o two L	out the diffe ayout Man	erences bet	ween AWT example pr	and Swin	ngs. Also, ez	explain about any $(3 + 4 = 7)$	
	(b)				g JDBC to s ving operati		records of 3	students in the	
		(i) I	nsert			v *	,		
		(ii) D	elete						
140		(iii) U	pdate and						
		(iv) S	elect						
7. ,	(a)	Write a	a program istering stu	to create a idents to a	sample for college data	m using a abase.	Awt and Sw	ving components (7)	
	(b)	Write a	simple pr	ogram in J	ava where	Client P	rogram req ient.	uests the Server	