17515

	Hours / 100 M	larks									
	Instructions: (1) All questions are compulsory. (2) Answer each next main question on a new (3) Illustrate your answers with neat sketche. (4) Figures to the right indicate full marks. (5) Assume suitable data, if necessary.							_	er nec	cessary	<i>)</i> .
										N	Marks
1.	a) Attempt any three	of the follow	ving.							(3×	4=12)
	a) Describe any t	wo relational	and any two log	ical ope	erators	in Jav	a with	n simp	ole exa	mple.	
	b) What are strea	m classes ? I	ist any two inpu	t strean	n class	ses fro	m cha	racter	strea	m.	
	c) Write general syntax of any two decision making statements and also give its examples.										
	d) Describe life c	ycle of threac	l .								
	b) Attempt any one of following.							(1	×6=6)		
	a) Explain following methods of string class with their syntax and suitable example.						nple.	(-	,		
	i) substring (_	_	place (•	- 0107 2			-P		
	b) Write syntax o a class.					fferen	ces be	tween	inter	face an	d
2.	. Attempt any two of the	e following.								(2×	8=16)
	a) Write a program to	-		its meth	nod for	addin	g and	remov	ving el	lement	S.
	After remove displ	ay remaining									
	After remove displete b) Describe with example and the control of	,	achieve multiple	inherita	ance w	ith sui	table _]	progra	ım.		
	•	mple how to a	-				•	progra	ım.		
3.	b) Describe with exa	mple how to a	-				•	progra	ım.	(4×	(4=16)
3.	b) Describe with exacc) Write a simple app	mple how to a let program v	which display thr	ee conc	centric	circle	•	progra	nm.	(4×	4=16)
3.	 b) Describe with exact c) Write a simple app Attempt any four of formal describing approximates b) Write a program to the constructor of the constru	mple how to a det program vollowing : r. Explain par o check whet	which display thr cameterized cons ther an entered n	ree cond	centric	circle	e.	progra	nm.	(4×	4=16)
3.	b) Describe with exacc) Write a simple app Attempt any four of form a) Define constructor b) Write a program to c) Explain serialization	mple how to a let program v ollowing: r. Explain par o check when on with strean	which display thr rameterized cons ther an entered n n classes.	ree cond	centric	circle	e.	progra	am.	(4×	:4=16)
3.	 b) Describe with exact c) Write a simple app Attempt any four of formal describing approximates b) Write a program to the constructor of the constru	mple how to a let program v ollowing: r. Explain par o check when on with strean	which display thr rameterized cons ther an entered n n classes. parameters for :	ree cond	centric with e	circle	e.	progra	ım.	(4×	:4=16)

Marks

4. a) Attempt **any three** of following.

 $(3 \times 4 = 12)$

- a) Explain break and continue statements with example.
- b) Describe use of 'throws' with suitable example.
- c) State syntax and describe working of 'for each' version of for loop with one example.
- d) State syntax and describe any two methods of map class.

b) Attempt any one of following.

 $(1 \times 6 = 6)$

- a) Write method to set font of a text and describe its parameters.
- b) Describe final method and final variable with respect to inheritance.

5. Attempt **any two** of following.

 $(2 \times 8 = 16)$

- a) What is thread priority? How thread priority are set and changed? Explain with example.
- b) Write a program to input name and age of person and throws user defined exception, if entered age is negative.
- c) Explain <applet> tag with its major attributes only. State purpose of get Available Font Family Name () method of graphics environment class.

6. Attempt any four of the following.

 $(4 \times 4 = 16)$

- a) Define a class Item having data member code and price. Accept data for one object and display it.
- b) What is use of Array list class? State any two methods with their use from Array List.
- c) Design an Applet program which displays a rectangle filled with red color and message as "Hello Third year Students" in blue color.
- d) Design a package containing a class which defines a method to find area of rectangle. Import it in Java application to calculate area of a rectangle.
- e) Define a class having one 3-digit number as a data member. Initialize and display reverse of that number.