

3 Hours/100 Marks		Seat No.			
Instructions :	 (1) All questions are compulsory. (2) Answer each next main question on a new page. (3) Illustrate your answers with neat sketches wherever necessary. (4) Figures to the right indicate full marks. (5) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall. 				
2) Compile b) Explain seri c) Write any fo d) Explain follo 1) suspend	i independence ed and interpreted f alization in relatior our mathematical fu owing methods rela	n with stream clas unctions used in w ated to threads : ne ()			Маккs (3×4=12)
of vector wit	erence between ar th example. structor ? Demons	-		-	
b) What is interfaexplain the usec) Design an app	ct class with suitab ace ? How it is diff	ferent from class		-	-
 Attempt any four a) Explain use of 1) indexOf () 3) subString (following methods	: 2) charAt () 4) repalce ()			(4×4=16) P.T.O.

Marks

- b) Write a program to find sum of digits of number.
- c) What is use of stream classes ? Write any two methods FileReader class.
- d) Describe applet life cycle with suitable diagram.
- e) What is final variable and method ? How it is different from abstract method ?
- 4. a) Attempt any three of following :
 - a) What do mean by typecasting ? When it is needed ?
 - b) Describe life cycle of thread.
 - c) Write a program to generate Fibonacci series : 1 1 2 3 5 8 13 21 34 55 89.
 - d) Write syntax and function of following methods of date class :
 - 1) sethme () 2) getDay ()
 - b) Attempt any one of the following :
 - a) Write the syntax and example for each of following graphics methods :
 - 1) drawPoly() 2) drawRect()
 - 3) drawOval () 4) fillOval ()
 - b) What is garbage collection and finalize method in Java?
- 5. Attempt any two of following :
 - a) Write a program to create two threads ; one to print numbers in original order and other to reverse order from 1 to 50.
 - b) What are different types of error ? What is use of throw, throws and finally statement ?
 - c) State the use of Font class. Write syntax to create an object of Font class. Describe any 3 methods of Font class with their syntax and example of each.
- 6. Attempt **any four** of following :



- b) What is use of setclass ? Write a program using setclass.
- c) Differentiate between applet and application (any 4 points).
- d) What is package ? How do we create it ?
- e) Write a program to print reverse of a number.

17515

(2×8=16)

eacn. (4×4=16)

(1×6=6)

 $(3 \times 4 = 12)$