

3 Hours/100 Marks			Seat No.								
	(3)	All questions are Answer each ne Illustrate your necessary. Assume suitable Mobile Phone, Pa devices are not	ext main question answers with e data, if neces ager and any o	on on n nea ssary ther E	at sk r. Electr	ketci ronic	hes Cor	wh mmu			
										Ма	RKS
1.	c) Explain any		s handled ? tors and any tv			-					12
	i) addElem ii) removeE iii) elementA	e following methorient () Element ()	ds related to ve			er is p	orim	ie or	not.		6
2.	Attempt any two ofa) Describe accessb) Define thread.c) Write a program if two strings at	ss control parame Why it is used? I	Explain life cyclefined exception	le of	threa	ad in			cepti	on"	16

121	7	6
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MARKS

3.	Attem	pt any	four	of the	following	:
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16

- a) What is garbage collection in Java? Explain.
- b) What is Byte-code? Explain any two tools available in JDK.
- c) Distinguish between class and interface.
- d) Explain how user defined packages are created and accessed in Java.
- e) Write any two methods of file and file input stream class each.

4. A) Attempt any three of the following:

12

- a) Explain applet life cycle with suitable diagram.
- b) Explain serialization in relation with stream classes.
- c) Define a class 'employee' with data members as empid, name and salary. Accept data for 5 objects and print it.
- d) Write a program to accept a number and print its factorial.

B) Attempt any one of the following:

6

- a) Explain the substring (), concat (), replace () methods of class string.
- b) Write a program to implement vector class and its method for adding and removing elements.

5. Attempt any two of the following:

16

- a) What is interface? Describe syntax, features and need of an interface.
- b) Describe any four methods from graphics class.
- c) Create an applet which accepts user name as a parameter for html page and displays numbers of character from it.

6. Attempt any four of the following:

16

- a) Explain thread priority and method to get and set priority values.
- b) Explain method overloading with respect to inheritance.
- c) Explain <applet> tag with all its major attributes.
- d) Write a program to calculate percentage of marks of 4 subjects and print in suitable format.
- e) Write a program to accept first name, middle name and surname in three different strings and then concatenate the three strings to make full name.