Dec. 2015

0. O.P.M.

QP Code: 5286

(3 Hours)

[Total Marks: 100

	N .]	В.;	(2) A (3) II	Question no. 1 is compulsory Attempt any three from remaining questions. Illustrations, in-depth answers and diagrams will be appreciated. Mixing of sub-questions is not allowed.	
	1.	1000000		how Java is platform-independent and high performance. System.arraycopy()	5
				applet program to draw circle, rectangle and polygon.	5 5
•	2.	(a)	(i) (ii) (iii)	route. Assume that each train reaches its descination on same day and every train runs everyday For each train on its foute, store (a) time in (b) time out (c) Sequence no so stations in the route of a train can be ordered by sequence no.	12
		-	(10)	Passenger booking consisting of train, date, from station, to station, coach, seat and passenger name. Draw class diagram for above scenario. Show clearly the relationship among	
				participating classes.	
		(b)	Draw Se	equence diagram for passenger booking his ticket at irctc website.	8
200	3.	(a)		program to display area of square, triangle and circle. Make use of interface templates of methods to be implemented in desired classes.	10
		(Ъ)	Write a p	program to check whether the entered four digit number is vampire or not. ation of digits from this number forms two 2-digit number. When they are ed by each other, we get original number. eg 1260 = 21 *60.	10

4. (a) In a garden, trees are maintained. A tree has following set of attributes:

Tree code, height, base and amount spent on the tree so far.

10

Define Tree class, its constructor, display () and update () that updates tree information.

Define derive class Mango tree that has additional yield attribute.

Define Garden class and display information of a tree and a Mango Tree.

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	(b)	Write ti (i) (ii)			ating in terms of following	Ŧ		
5.	 (a) Write a program to read five names of students from command line and store them a vector. Sort list in alphabetical order and display using Enumeration interface. (b) Explain cohesion and coupling with suitable example. (c) What are recursive functions? Demonstrate the concept with fibonacci program. 							
6.	1	(a) I (b) S (c) T (d) J	notes on (any four): Life cycle of Applet. Static Members. Thread Synchronization VM. Collection classes.	TORK SOLVERS	Share all was a series of the			
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