Student Exam No.

GANPAT UNIVERSITY B. Tech. Semester VI EC Engineering Regular/Remedial Examination April-June 2016 2EC606 Elective Object Oriented Programming

TIME: 3 HOURS]

[TOTAL MARKS: 70

INSTRUCTIONS:

- 1. Attempt all questions.
- 2. Answers to the two sections must be written in separate answer books.
- 3. Figures to the right indicate full marks.
- 4. Assume suitable data, if necessary.

SECTION-I

Que. 1	(A) (B)	Explain three OOP principles with suitable example. How does Java interact with web? Discuss interaction steps with necessary sketch.	4
	(C)	Write short note on Scope of variables.	4
		OR	
Que. 1	(A)	Enlist and explain in brief six Java features.	6
· · · ·	(B)	What is the role of Interpreter and Compiler in JVM? Discuss.	3
	(C)	Give classification of Integer and Floating point data types and also show the size of each type.	3
Que. 2	(A)	Write a java program to find smallest number from the given three numbers.	3
	(B)	Write short note on the following:	6
		1. Arithmetic operators 2. Logical operators	
	(C)	Write java assignment statements to evaluate the following equation. Area = $\Pi r^2 + 2\Pi rh$.	2
		OR	
Que. 2	(A)	Evaluate the following:	3
		1. 9-12/(3+3)*(2-1)	
		2. 9-(12/(3+3)*2)-1	
		3. 9-((12/3)+3*2)-1	
	(B)	Write short note on the following:	6
	1.	1. Relational operators 2. Assignment operators	
	(C)	Write java assignment statements to evaluate the following equation.	2
		Side = $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$.	
Que. 3	(A)	Enlist applications of OOP.	2
	(B)	What is type casting? Why is it required in programming?	3
	(C)	Write short note on Jumps in Loops for Java.	3
	(D)	Write a java program to print multiplication table with 3 rows and columns.	4
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SECTION-II

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	Que. 4	(A)	How the class members can be initialized using constructor? What is the	4
,		· ·	significance of static members?	4
		(B)	Explain auto boxing and unboxing with suitable example program.	4
	2.291/1	(C) [.]	What is the use of super and this keyword? Discuss with an example.	
			OR	
	Que. 4	(A)	Compare and contrast overloading and overriding methods.	4
	Que. 4	(A) (B)	How an array is different than Vector in Java? Briefly discuss.	4
		(C)	When do we declare method or class as final?	4
		(0)		
	Que. 5	(A)	How can we convert primitive numbers to object numbers and numbers to	4
		()	string?	1
		(B)	Write a Java program for creating threads using the thread class.	3
		(C)	Give the differences between class and Interface. Discuss what is the need of	5
			Interface in Java?	
			OR	
	0.00 5	(1)	Give differences between String and StringBuffer class.	4
	Que. 5	(A)	Write short note on life cycle of a thread.	4
		(B)	Explain in brief various forms of Interface implementation.	3
		(C)		
	0	(1)	How can we create, access and use a package in Java? Explain with example.	4
	Que. 6	(A)	Write short note on types of errors in Java.	3
		(B)	Write applets to draw the following shape.	5
		(C)	1. Circle inside a square	
		AS C	2 Square inside a circle	

END OF PAPER