Code: 15A05403 **R15**

B.Tech II Year II Semester (R15) Regular & Supplementary Examinations May/June 2018

OBJECT ORIENTED PROGRAMMING USING JAVA

(Common to CSE & IT)

Time: 3 hours Max. Marks: 70

PART – A

(Compulsory Question)

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1 Answer the following: (10 X 02 = 20 Marks)

(a) Why java is called as platform independent language? Explain.

(b) Draw the architecture of JVM.

(c) Write a java program that displays the sum of two numbers. The program should accept input from keyboard.

(d) Compare string class and string buffer class.

(e) How will you access static member of a class?

(f) When is "Arithmetic exception" thrown? Provide an example.

(g) Draw the life cycle of thread.

(h) Create simple code that displays a text field.

(i) List any four AWT controls.

(j) How do you add a file dialog?

PART – B

(Answer all five units, 5 X 10 = 50 Marks)

UNIT – I

2 List and explain various data types in java.

OR

3 Discuss various types of decision making and branching statements with syntax and example for each.

UNIT – II

4 Design a class to represent the student details with the following members roll no, name and mark for 3 subjects. Write a java program to calculate the average marks scored by student.

OR

5 (a) Explain usage of 'this' keyword with suitable example.

(b) What is type conversion and casting? Explain in detail.

UNIT – III

6 Write a java program to create two packages and import one package into another and explain in detail with an example.

OR

7 (a) What is an exception? Explain various exception types.

(b) Write a java program using all keywords of exception handling.

UNIT – IV

8 Summarize the exception handling mechanisms with appropriate examples for each.

OR

9 Design an applet to draw the following four shapes using graphics class:

(i) Circle. (ii) Rectangle. (iii) Line.

UNIT – V

10 Write suitable java programs to illustrate the four layout managers used to arrange the different components.

OR

11 (a) What is AWT class? Write a java program by using AWT components.

(b) Explain about event delegation model.

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