

USN

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Fifth Semester B.E. Degree Examination, Dec.2017/Jan.2018 Programming in Java

Time: 3 hrs.

Max. Marks: 80

Note: Answer any FIVE full questions, choosing one full question from each module.

Module-1

- 1 a. Discuss three OOPs principles. (06 Marks)
- b. Explain Java application Development step and JVM. (06 Marks)
- c. Explain different Access Specifiers. (04 Marks)

OR

- 2 a. Explain the scope and life time of variables with an example (05 Marks)
 - b. What is narrowing and widening explain with an example. (05 Marks)
 - c. Explain how array in java work differently than C/C++. Write a java program to display
- | | | | | |
|----|----|----|----|----|
| 0 | 1 | 2 | 3 | 4 |
| 5 | 6 | 7 | 8 | 9 |
| 10 | 11 | 12 | 13 | 14 |
| 15 | 16 | 17 | 18 | 19 |
- (06 Marks)

Module-2

- 3 a. Explain the following operator with an example.
 - i) Logical operator
 - ii) Bitwise operator (05 Marks)
- b. With example explain about Ternary operator. Write a Java program to find the largest of three numbers using Ternary operator. (06 Marks)
- c. Explain for each version of for loop write a program to display 2D student data: Name and USN. (05 Marks)

OR

- 4 a. Demonstrate the use of
 - * Continue statement in while loop
 - * Break statement in do while loop (06 Marks)
- b. Write a java program to find the prime numbers form 1 to 100. (05 Marks)
- c. Write a java program to perform simple calculator operation. (05 Marks)

Module-3

- 5 a. What are the salient features of constructor? Write a java program to show these features. (05 Marks)
- b. Explain the following :
 - i) Use of this keyword
 - ii) Garbage collection in java
 - iii) Finalize () method. (06 Marks)
- c. With a java program show how final keyword is used to prevent inheritance and overriding. (05 Marks)

OR

- 6 a. Create a java class called Student with the following details as variables (USN, Name, Branch, Phone number). Write a java program to create n student object and print USN, Name Branch and phone number with suitable message. (06 Marks)
- b. Differentiate between C++ and Java with respect to inheritance. Mention the use of super class and this parameter in java with example. (05 Marks)
- c. What is Inner class? Demonstrate with an example. (05 Marks)

Module-4

- 7 a. Define Interface. Explain how to define implement and assign variable in interface to perform "one interface multiple method". (05 Marks)
- b. What is the role of interface while implementing multiple inheritances in java? (05 Marks)
- c. Write short note on : (06 Marks)
- Importing package
 - Accesses protection.

OR

- 8 a. Define Exception Demonstrate the working of nested try block with an example. (06 Marks)
- b. Write a program which contains one method which will throw IllegalAccessException and use proper exception handles so that exception should be printed. (05 Marks)
- c. Explain the following : (05 Marks)
- Java's built in Exception
 - Uncaught Exception

Module-5

- 9 a. What are Applets? Explain the different stages in the life cycle of Applet. (06 Marks)
- b. Write a note : (05 Marks)
- Type Wrapper
 - Transient and volatile modifier
- c. Enlist the Applet Tag. (05 Marks)

OR

- 10 Explain the following with example (16 Marks)
- String co
 - mparision
 - Searching strings
 - Modifying string
- Overloading constructor.
