

CBCS Scheme

USN

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15CS561

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. (05 Marks)
i) Logical operator
ii) Bitwise operator
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 (06 Marks)
* Break statement in do while loop (05 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 : (06 Marks)
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)

Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.
2. Any revealing of identification, appeal to evaluator and /or equations written eg. 42+8 = 50, will be treated as malpractice.

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 supper 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 :
 i) Importing package
 ii) Accesses protection. (06 Marks)

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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 :
 i) Java's built in Exception
 ii) Uncaught Exception (05 Marks)

Module-5

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

OR

- 10 Explain the following with example
- a. String co
 b. mparison
 c. Searching strings
 d. Modifying string
 Overloading constructor.

(16 Marks)
