

V Semester B.A./B.Sc. Examination, Nov./Dec. 2014
(F + R) (Semester Scheme)
COMPUTER SCIENCE – VI
Java Programming and Unix/Linux Operating System

Time : 3 Hours

Max. Marks : 70(F)/60(R)

- Instructions :**
- 1) **Repeaters** have to answer Section A, B and C only, which carries 60 marks (prior to 2013-14).
 - 2) **Freshers** have to answer Section A, B, C and D, which carries 70 marks (2013-14 and onwards)
 - 3) 70 marks for **Fresh** students of 2013-14 and onwards.
 - 4) 60 marks for the **Repeater** students prior to 2013-14.

SECTION – A

I. Answer any 10 questions.

(1×10=10)

- 1) Why Java is known as dynamic language ?
- 2) What is the use of abstract class in Java ?
- 3) What is a package ?
- 4) Differentiate between throw and throws.
- 5) What is single inheritance ?
- 6) Mention any two methods defined by File Input Stream.
- 7) What is multitasking ?
- 8) What are the different types of files in UNIX ?
- 9) What is the use of grep command ?
- 10) Mention any two commands for backup files in UNIX.
- 11) List any two advantages of shell scripts.
- 12) What is open source code ?

SECTION - B

II. Answer **any 5** questions.

- 13) Explain nested if statement in Java with example.
- 14) Write short notes on command line arguments.
- 15) Explain Date Class with example.
- 16) Write short notes on exception handling.
- 17) Explain different ways of setting file permission in UNIX.
- 18) Write short notes on piped process.
- 19) Write a shell program to find the sum of digits of a given number.

SECTION - C

III. Answer **any 5** questions.

- 20) a) Explain switch statement in Java with example.
b) Write short notes on ternary operations.
- 21) Explain different types of constructors with example.
- 22) a) Explain creating and importing user defined package with example.
b) Write short notes on Class Path.
- 23) What is multi threading ? Explain creating and extending thread with example.
- 24) Discuss in detail about UNIX file system.
- 25) a) Explain any four system calls.
b) Write short notes on security issues in UNIX.
- 26) a) Briefly explain UNIX directory structure.
b) Write short notes on Secondary Storage Management.
- 27) a) Explain Until loop with example.
b) Explain any three system communication commands.

SECTION - D

(2013-14 and Onwards students only)

IV. Answer **any 1** question.

- 28) a) Briefly explain interfaces with example.
b) Write a Java program to create object of a stack and use all the methods.
- 29) a) Explain any five file related commands with syntax and example.
b) Write a shell program to check whether a given string is palindrome or not.