

V Semester B.A./B.Sc. Examination, November/December 2016
(Repeaters) (Semester Scheme) (Prior to 2015 – 16)

COMPUTER SCIENCE – VI

Java Programming and Unix/Linux Operating System

(70 Marks 2013 – 14 & Onwards)

Time: 3 Hours

Max. Marks: 70

Instruction: Answer all Sections.

SECTION - A

(1×10=10)

- I. Answer any 10 questions:
 - 1) Define an object and a class.
 - 2) What are abstract classes?
 - 3) What is the difference between class and package?
 - 4) Define a constructor.
 - 5) What are literals? Give an example.
 - 6) What is the difference between '&' and '&&' operators?
 - 7) What is multitasking feature?
 - 8) Name the kinds of file permission in unix.
 - 9) What does fork () do in unix?
 - 10) What is 'mail' command?
 - 11) What is Internet?
 - Name the metacharacters in shell programming.

SECTION-B

II. Answer any 5 questions.

 $(3 \times 5 = 15)$

- 13) What are static variables and static methods?
- 14) Write a note on this () keyword and super () keyword.
- 15) Write any 3 differences between C++ and Java.



- 16) What is the difference between string and string buffer?
- 17) Mention the features of unix operating system.
- 18) Explain any three filter commands in unix.
- 19) Write a shell program to count the number of vowels.

SECTION - C

III. Answer any 5 questions. 20) What is a constructor? Explain with an example. 21) Write a program to implement all string operations. 22) Explain the life cycle of threads. 23) What is an interface? Explain implementing interface with an example. 24) Explain the different types of inheritance in Java. 25) Write notes on types of file system in unix. 26) Explain any three control structures available in unix with examples. 27) What is the significance of grep command? Explain with an example.

SECTION -D

	IV.	Ans	swe	rany one question.	(1×10=	10)
		28)	a)	What is method overriding in Java? Explain with an example.		5
			b)	Explain different access protection specifies in Java.		5
		29)	a)	Explain different process states with a neat diagram.		(n)
			b)	Explain the different types of test commands with examples.		5