

Q.P. Code : 25145

**Third Semester B.Voc.(IT) Degree Examination,
November/December 2019**

(CBCS – Freshers & Repeaters – 2017-18 onwards)

Information Technology

Paper 305 – UNIX SHELL PROGRAMMING

Time : 3 Hours]

[Max. Marks : 70

Instructions to Candidates : Answer all Sections.

SECTION – A

1. Answer any **TEN** questions. Each question carries **2** marks : **(10 × 2 = 20)**
1. What is the difference between Kernel and shell?
 2. Explain the Boot block and Data block in UNIX file system.
 3. What is a background process in UNIX?
 4. List the various disk related commands.
 5. Write the UNIX commands for the following :
 - (a) To merge files file1.dat and file2.dat as file3.dat
 - (b) To print the first five records from a file – file3.dat.
 6. Discuss the logical operators in Shell programming.
 7. List the environment variables in Shell programming.
 8. Where and how elif keyword is used?
 9. Give the syntax of case statement.
 10. Write a shell script to find whether a given number is even or odd.
 11. Discuss the usage of wall command.
 12. Explain any two duties of a system administrator.

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SECTION - B

- II. Answer any **FIVE** questions : (5)
13. (a) Explain spiral model. (5)
(b) Explain the attributes of a good software. (5)
14. (a) What is software process? Explain incremental process model. (5)
(b) What is Extreme Programming? Explain the XP Value. (5)
15. (a) What is SRS? Explain. (5)
(b) What is a behavioral model? Mention the steps to create a behavioral model. (5)
16. (a) Explain coupling and cohesion. (5)
(b) Explain unit Testing and Integration Testing. (5)
17. (a) Explain quality attributes. (5)
(b) Explain object oriented design concepts. (5)
18. (a) Explain user interface design patterns. (5)
(b) Explain cost of quality. (5)
19. (a) Explain software testing fundamentals. (5)
(b) Explain Debugging process. (5)
20. (a) Explain quality and security. (5)
(b) Explain quality Assurance. (5)
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