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06CS36

Third Semester B.E. Degree Examination, December 2010

UNIX and Shell Programming

Time: 3 hrs.

Max. Marks:100

Note: Answer any FIVE full questions, selecting at least TWO questions from each part.

PART – A

- 1
 - a. Explain the architecture of UNIX operations system. (08 Marks)
 - b. Describe the salient features of the UNIX operating systems. (08 Marks)
 - c. Write a note on the man command. (04 Marks)
- 2
 - a. Explain the different types of files supported in UNIX. (06 Marks)
 - b. Interpret the significance of the seven fields of the *ls -l* output. (07 Marks)
 - c. Explain the three modes of the Vi editor. (07 Marks)
- 3
 - a. What are the standard input, standard output and standard error? Explain with respect to UNIX. (10 Marks)
 - b. What are file attributes? Explain how to change the basic file permissions, with an example. (06 Marks)
 - c. Explain the grep, with examples. (04 Marks)
- 4
 - a. How is a process created? Mention briefly the role of fork and exec system calls in the process creation. (08 Marks)
 - b. Define a job. How is job control done in UNIX? (06 Marks)
 - c. What are the shell variables that control the UNIX systems called? Explain atleast five of them. (06 Marks)

PART – B

- 5
 - a. Explain the following commands with an examples:
i) Head ii) Port iii) tr iv) Talk v) wc (10 Marks)
 - b. What is shell programming? Explain the shell feature of while and for with syntax. (10 Marks)
- 6
 - a. Explain the use of test and [] to evaluate expressions in shell. (08 Marks)
 - b. Explain the variable and operators in PERL. (06 Marks)
 - c. State any six built in variables in awk and explain each. (06 Marks)
- 7
 - a. Explain the list and array used in perl. Also write a perl program to convert decimal number to binary number. (10 Marks)
 - b. What is a hev document? Explain with an example. Also mention its use. (05 Marks)
 - c. Using command line arguments, write a perl program to find whether a given year is leap year. (05 Marks)
- 8
 - a. Write a note on awk, with options. (06 Marks)
 - b. Explain string handling functions in perl. (06 Marks)
 - c. How is file managed in perl? Explain with an example. (08 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.

1. The first part of the document discusses the importance of maintaining accurate records of all transactions and activities. It emphasizes that proper record-keeping is essential for transparency and accountability, particularly in financial matters. The text suggests that organizations should implement robust systems to track and document their operations, ensuring that all data is reliable and accessible.

2. The second section focuses on the role of technology in modern business operations. It highlights how digital tools and software solutions can streamline processes, reduce errors, and improve overall efficiency. The author argues that embracing technology is not just a competitive advantage but a necessity for long-term success in a rapidly evolving market.

3. The third part of the document addresses the challenges of managing human resources. It discusses the importance of fostering a positive work environment, providing training and development opportunities, and ensuring fair compensation. The text suggests that organizations should focus on building a strong team culture and promoting collaboration among employees to achieve their goals.

4. The fourth section explores the impact of market trends and economic conditions on business performance. It notes that organizations must stay informed about industry developments and be prepared to adapt their strategies accordingly. The author emphasizes the need for flexibility and resilience in the face of uncertainty, suggesting that proactive planning and risk management are key to navigating these challenges.

5. The final part of the document discusses the importance of customer satisfaction and loyalty. It suggests that organizations should invest in understanding their customers' needs and preferences, and provide high-quality products and services that meet or exceed expectations. The text argues that satisfied customers are more likely to remain loyal and recommend the organization to others, which is crucial for sustained growth.