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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY-2008

III B.TECH SUPPLIMENTARY EXAMINATIONS UNIX PROGRAMMING (INFORMATION TECHNOLOGY, CSE)

AUG/SEP-2008

MARK-3 HOUR MARK-80

ANSWER ANY FIVE QUESTIONS. ALL QUESTIONS CARRY EQUAL MARKS.

MARKS [16*5=80]

- 1. "Operating systems like UNIX provide services both for programs and users". Justify this statement with suitable examples.
- 2. What is a filter in UNIX? Explain any four filters in detail with examples.
- 3. (a) If x has the value 5, and you reassign it with x="expr \$x+10", what is the new value of x? What would have been the value if single quotes were used? What's wrong with all this anyway?
- (b) Devise a script that accept 2 directory names bar1 and bar2, and deletes those files in bar2 whose contents are identical to their namespaces in bar1.
- 4. (a) Write a shell script which gets executed the moment the user logs in. It should display the message "good morning/good afternoon/good evening" depending upon the time at which the user logs in.
- (b) Explain about here documents with an example.
- 5. Write syntax of following system calls.
- (a) chmod
- (b) chown
- (c) unlink
- (d) link.
- 6. Write the system calls for process termination in detail.
- 7. Write in detail about locking regions.
- 8. Explain the following concepts
- (a) Pipes in single process
- (b) Pipes in single process, immediately after fork