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RF-4832

M. C. A. (Sem. V) (ATKT) Examination

April / May - 2010

502 : Unix Internals & Shell Programming

Time : 3 Hours]

[Total Marks : 70

Instructions :

(1)

नीचे दृष्टावेक निशानीवाणी विगतो उत्तरवडी पर अवश्य लपवी.
 Fillup strictly the details of signs on your answer book.

Name of the Examination :

Name of the Subject :

Subject Code No. : Section No. (1, 2,...):

Seat No. :

Student's Signature

- 1 (a) Explain in brief unix system structure. 6
- (b) Explain in brief different types of looping in shell programming. Also give example. 6
- (c) Explain in brief the different init run levels. Also explain the importance of inittab file? 6

- 2 Answer the following in brief:- (any six) 12
 - (1) State difference between who and finger command.
 - (2) What is difference between Process and a Job?
 - (3) What is the use of stat ()?
 - (4) What is difference between hard and soft link?
 - (5) What is the use of 'du' and 'df' utility?
 - (6) What are the commands to make a file hidden and to delete all hidden files in the folder?
 - (7) What is the difference between grep and find commands?

- 3** Explain following with example : (any **five**)
- (1) bc
 - (2) diff
 - (3) touch
 - (4) sort
 - (5) file
 - (6) wc
- 4** Answer any **four** : **20**
- (a) Explain in brief file system in Unix.
 - (b) How is new process created in Unix? Explain in brief different system call related to it.
 - (c) Explain in brief mount and umount system call.
 - (d) Explain in brief layout of system memory.
 - (e) Write a short note on Interprocess communication.
- 5** Attempt any **two**:- **10**
- (a) Write a C program to copy the character from mca1.txt to mca2.txt using getc and putc function only.
 - (b) Write a script to kill a given process (name) of the user. Check for all validation.
 - (c) Write a menu driven program to do as follow: write a menu driven program to do as follow:-
 - (i) count number of line if file (without using wc)
 - (ii) Convert first character of each line to uppercase
 - (iii) Code the file (so that file has no meaning if opened to read)
 - (iv) Decode the file
 - (v) Read the file
 - (vi) exit
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