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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 दशांशवले निशानीवाणी विगतो उत्तरवडी पर अवश्य लपवी. Fillup strictly the details of signs on your answer book.	Seat No. :
Name of the Examination :	<input type="text"/>
<input type="text" value="M. C. A. (Sem. 5) (ATKT)"/>	<input type="text"/>
Name of the Subject :	<input type="text"/>
<input type="text" value="502 : Unix Internals &amp; Shell Programming"/>	<input type="text"/>
Subject Code No. : <input type="text" value="4"/> <input type="text" value="8"/> <input type="text" value="3"/> <input type="text" value="2"/>	<input type="text"/>
Section No. (1, 2,.....): <input type="text" value="Nil"/>	<input type="text"/>
	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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