Total No. of Questions : 8]

SEAT No. :

P4868

[Total No. of Pages : 2

[5060] - 811
M.E. (Computer Engineering)
ADVANCED UNIX PROGRAMMING
(2013 Pattern) (Semester - III)

Time : 3 Hours] *[Max. Marks :50*

Instructions to the candidates:

1) ***Attempt any five out of 8 questions.***
2) ***Neat diagrams must be drawn wherever necessary.***
3) ***Figures to the right indicate full marks.***
4) ***Assume suitable data, if necessary.***
5) ***Use of calculator is allowed.***

Q1) a) Write shell script to multiply two numbers. Print two numbers and the result. Also write command to execute the shell script. **[5]**

b) Explain methods of changing file access permissions. **[3]**

c) Write Command to find specific file with specific owner. **[2]**

Q2) a) Explain IA-64 architecture. **[5]**

b) Explain I-node architecture. **[5]**

Q3) a) What is the use of virtual memory management? **[5]**

b) Explain signals SIGINIT SIGKILL, SIGTERM, SIGALRM, alarm () **[5]**

Q4) a) Explain different I/O models. **[5]**

b) Explain readv, writev, readn and written functions. **[5]**

P.T.O.

Q5) a) Explain msgget(), msgsnd(), msgrcv() in brief. **[6]**

b) Write a short note on Message Queues. **[4]**

Q6) a) Explain different IPC types. **[5]**

b) Explian working of reliable and unreliable signals. **[5]**

Q7) a) Explain RPC model in detail. **[5]**

b) How message reading and writing is done in pipes. **[5]**

Q8) a) Explain different models of concurrent server design. **[5]**

b) What is thread? Explain deadlock, starvation, priority inversion, busy waiting. **[5]**

▽▽▽▽