



AS-M2010103

Seat No. _____

B. C. A. (Sem. IV) (Non CBCS) Examination

March / April – 2016

**CS-22 : Operating Systems Concepts with
UNIX / LINUX
(Old Course)**

Time : 3 Hours]

[Total Marks : 100

Instructions : (1) All questions are compulsory.
(2) Figures on right side indicate marks of questions.

- 1** Answer the following questions : (any **four**) **20**
- (1) Explain function of OS.
 - (2) Explain PCB
 - (3) What is scheduling ? Explain any one.
 - (4) Explain process state transition diagram.
 - (5) Explain UNIX architecture.
- 2** Answer the following questions : (any **four**) **20**
- (1) What is Memory? Explain contiguous memory allocation ?
 - (2) Explain virtual memory.
 - (3) Explain paging and segmentation.
 - (4) Explain redirection and piping.
 - (5) Explain types of shell.
- 3** Answer the following question : (any **four**) **20**
- (1) Explain for loop.
 - (2) Explain VI editor.
 - (3) Explain types of files.
 - (4) Explain System variable.
 - (5) Explain login commands.

- 4** Attempt the following commands : (any **ten**) **20**
- (1) grep
 - (2) cat
 - (3) ls
 - (4) bc
 - (5) mount
 - (6) rm
 - (7) uniq
 - (S) umask
 - (9) ps
 - (10) sort
 - (11) cmp
- 5** Attempt any four shell script : **20**
- (1) Write a shell script to reverse the entered number.
 - (2) Write a shell script to check whether no is armstrong or not.
 - (3) Explain decision statement in Unix.
 - (4) Explain file security in unix.
 - (5) What is shell? Explain shell variable.
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