



RAJ-003-1044004

Seat No. _____

B. Sc. (I.T.) (Sem. IV) (CBCS) (W.I.F. 2016) Examination

March / April - 2019

CS-22 : Operating System Concepts with Unix/Linux

Faculty Code : 003

Subject Code : 1044004

Time : $2\frac{1}{2}$ Hours]

[Total Marks : 70

- 1 (a) Fill in the blanks : 4
- (1) Queue at Ticket windows is example of _____ type of scheduling algorithm.
 - (2) SJN stands for _____.
 - (3) In paging, we divide the programs into equal sized blocks called _____ and the main memory is divided into equal sized blocks known as _____.
 - (4) When running process requires some input/output then it goes to _____ state.
- (b) Answer the following questions in brief : (any one) 2
- (1) What is turnaround time ? High turnaround time is good or not ?
 - (2) What is OS? List out its features.
- (c) Answer the following questions in detail : (any one) 3
- (1) Explain Real Time OS in brief.
 - (2) Explain process state transition diagram in brief.
- (d) Answer the following questions : (any one) 5
- (1) Write short note on Paging.
 - (2) Explain FCFS, priority based non-preemptive and RR scheduling with suitable example.

- 2** (a) Fill in the blanks : **4**
- (1) _____ command is used to change name of the file.
 - (2) _____ command is used to convert whole file from small letter to capital.
 - (3) _____ command is used to move the file to another directory.
 - (4) Bash stands for _____.
- (b) Answer the following questions in brief : (any one) **2**
- (1) What is shell ?
 - (2) Explain following commands :
 - (a) Is
 - (b) cut
- (c) Answer the following questions in detail : (any one) **3**
- (1) Explain types of files in Unix/Linux.
 - (2) Explain the comparison commands in Linux.
- (d) Answer the following question : (any one)
- (1) Write short note on VI Editor.
 - (2) Write short note on file and directory permission in linux.
- 3** (a) Fill in the blanks : **4**
- (1) Full form of CLI is _____.
 - (2) Full form of LILO is _____.
 - (3) CASE statement starts with case and ends with _____.
 - (4) _____ shell variable is used to get total number of positional parameters.
- (b) Answer the following questions in brief : (any one) **2**
- (1) List out linux booting sequence.
 - (2) Differentiate between LILO v/s GRUB.

- (c) Answer the following questions in detail : (any one) **3**
- (1) Explain if..then....else...fi statement with example.
 - (2) Write short note on variable in unix/linux.
- (d) Answer the following questions : (any one) **5**
- (1) Write a shell script to print even number between 1 to 50 using while loop.
 - (2) Write a shell to give menu option for following (using case..statement)
 - (1) To display content of file
 - (2) To rename given file
 - (3) To copy given file.

Based on user selected numbers (menu options) if take inputs and give outputs.
- 4 (a) Fill in the blanks : **4**
- (1) Full form of KDE is _____.
 - (2) Full form of GUI is _____.
 - (3) To add new user _____command are used in linux.
 - (4) _____ command is used to initialize an X session.
- (b) Answer the following questions in brief : (any one) **2**
- (1) What is sudo?
 - (2) How to install and uninstall software in linux ?
- (c) Answer the following questions in detail : (any one) **3**
- (1) Explain the configuration of X window system.
 - (2) Explain GNOME Desktop.
- (d) Answer the following questions : (any one) **5**
- (1) Explain the layered structure of X windows system in brief.
 - (2) Explain short note on Window Manager.

- 5** (a) Fill in the blanks : **4**
- (1) Full form of WINE is _____.
 - (2) Full form of DNS is _____.
 - (3) To delete old user _____ command are used in linux.
 - (4) _____ is a meaning of sudo.
- (b) Answer the following questions in brief : (any one) **2**
- (1) What is FTP ?
 - (2) What is LDAP server ?
- (c) Answer the following questions in detail : (any one) **3**
- (1) How to install and manage apache server in ubuntu ?
 - (2) Write short note on WINE.
- (d) Answer the following questions : (any one) **5**
- (1) What is Samba ? How to install and manage samba server on ubuntu ?
 - (2) Explain configuration of Firewall on ubuntu.
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