

Seat No. : _____

ND-105

November-2018

B.C.A., Sem.-V

CC-301 : Open Source Operating System

Time : 2:30 Hours]

[Max. Marks : 70

- Instructions :**
- (1) Begin new answer on a new page.
 - (2) Draw diagrams wherever necessary.
 - (3) Figures to the right indicate full marks.

1. (A) Answer the following :

- (i) Discuss the problems with WINDOWS and benefits of LINUX. 7
- (ii) Explain the desktop elements of UBUNTU. 7

OR

- (i) What is workspace switcher in UBUNTU ? Write the steps to add or remove Virtual Desktop. Also discuss its usefulness. 7
- (ii) Discuss how to configure wired network using Ethernet card. 7

(B) Attempt any **four** out of Six. 4

- (i) UBUNTU offers a full-featured e-mail program, called _____.
 - (a) Yahoo (b) Gaim
 - (c) Evolution (d) Gmail
- (ii) In _____ drivers, source code is not made publicly available.
 - (a) Open source (b) Device
 - (c) Protected (d) Proprietary
- (iii) A Windows or _____ printer is one that's directly connected to a computer, and then made available across the network.
 - (a) Local (b) Network
 - (c) SMB shared (d) New
- (iv) UBUNTU offers a full-featured instant messaging client, called
 - (a) Yahoo Messenger (b) Whatsapp
 - (c) Outlook (d) Gaim
- (v) Pairing Bluetooth devices is very simple in practice and works on the principle of a shared _____.
 - (a) UIDAI (b) PIN
 - (c) PAN (d) UID
- (vi) Scanning within UBUNTU is handled by the _____ utility.
 - (a) XSane (b) XScan
 - (c) USane (d) UScan

2. (A) Answer the following :
- (i) Discuss security features of Windows and Linux. 7
 - (ii) Discuss various tabs of keyboard preferences dialog box. 7

OR

- (i) Discuss how to alter theme by changing look and feel in UBUNTU. 7
- (ii) Discuss the options available while configuring mouse. 7

- (B) Attempt any **Four** out of Six : 4

- (i) _____ affects the spacing and shaping of the letters.
 - (a) Antialiasing (b) Jaggies
 - (c) Hinting (d) None of these
- (ii) To change a system font, select System → _____ → Font.
 - (a) Preferences (b) Administration
 - (c) Theme (d) Appearance
- (iii) If the wallpaper picture is smaller than the desktop resolution, _____ option simply repeats the picture (starting from the top left) until the screen is filled.
 - (a) Centered (b) Fill Screen
 - (c) Tiled (d) Scaled
- (iv) _____ are the long strips that appear at the top and bottom of the UBUNTU screen and play host to a choice of applets and/or icons.
 - (a) Launchers (b) Links
 - (c) Menus (d) Panels
- (v) UBUNTU includes a number of power-saving features of your computer, like _____, _____ etc.
 - (a) Controlling the monitor shut-off
 - (b) Spinning down the hard disk
 - (c) Both (a) and (b)
 - (d) None of these
- (vi) To configure most hardware devices, you will be asked for your password, because configuring hardware requires _____ user privileges.
 - (a) Super (b) Root
 - (c) Administrator (d) Ordinary

3. (A) Answer the following.
- (i) Describe elements of the default file browser - Nautilus in UBUNTU 7
 - (ii) Write a short note on viewing and changing file permissions. 7

OR

- (i) Compare find, locate and whereis commands for file searches. 7
- (ii) Describe commands with their syntax and options (if any) associated with file operations like listing, copying, moving and deleting files. 7

(B) Attempt any **three** out of five. 3

- (i) To unmount a system, you use the special command _____ prefacing with sudo command.
 - (a) unmount
 - (b) umount
 - (c) umask
 - (d) unmask
- (ii) You can switch back to the GUI from virtual console by pressing _____.
 - (a) Ctrl+Alt+F5
 - (b) Ctrl+Alt+F2
 - (c) Ctrl+Alt+F7
 - (d) Ctrl+Alt+F4
- (iii) BASH stands for _____.
 - (a) Bourne Again SHell
 - (b) Bend Again SHell
 - (c) Bond Again SHell
 - (d) Bourne Attach Script
- (iv) _____ is the directory where each user's personal directory is stored.
 - (a) bin
 - (b) home
 - (c) etc
 - (d) lib
- (v) The files created in the/dev directory are _____ files.
 - (a) Real
 - (b) Virtual
 - (c) Hidden
 - (d) Archive

4. (A) Answer the following :

- (i) Explain how grep filter is useful to search patterns using regular expressions. 7
- (ii) Describe top program to get process information. 7

OR

- (i) Write a note on piping and redirecting the output. 7
- (ii) List out and describe various filters on images by GIMP image editing program. 7

(B) Attempt any **three** out of Five. 3

- (i) You use the _____ movie player as basic application to play back video under UBUNTU.
 - (a) Stream Tuner
 - (b) MP4
 - (c) Rhythm Box
 - (d) Totem
- (ii) Zombie processes are those that are _____ of processes that have been terminated.
 - (a) Orphan
 - (b) Parents
 - (c) Children
 - (d) None of these
- (iii) _____ is an extremely powerful image editor in UBUNTU that offers the kind of functions usually associated with top-end software like Adobe Photoshop.
 - (a) GNOME
 - (b) GIMP
 - (c) GEDIT
 - (d) GDM

- (iv) _____ lets you search forward through the file by typing a slash (/), and then entering your search term.
- | | |
|----------|----------|
| (a) head | (b) tail |
| (c) less | (d) cat |
- (v) By default, head and tail commands will display _____ lines of the file.
- | | |
|----------|---------|
| (a) One | (b) N |
| (c) Five | (d) Ten |
- _____