

Seat No. : _____

XV-107

Five Years M.Sc. (CA & IT) Integrated (K.S.)

4th Sem. S.Y. M.Sc

April-2013

OST (Open-Source Technologies)

Time : 3 Hours]

[Max. Marks : 100

1. Answer the following (any **four**) : **20**
 - (a) Explain the concept of Cat B.
 - (b) What is GNU & GPL ? Explain in detail.
 - (c) Write a short note on AGPL.
 - (d) Differentiate between commercial S/W and OSS.
 - (e) Explain Creative Common in detail.

2. Answer in detail (any **two**) : **20**
 - (a) Describe the Linux directory structure.
 - (b) Explain Linux Package Management.
 - (c) Write a short note on :
 - (i) Environment variables
 - (ii) VI Editor.

3. Explain any **two** in detail : **20**
 - (a) User Administration
 - (b) Memory Management
 - (c) Apache web service

4. Explain the commands for the following (any **ten**) : **20**
 - (a) Changing file permission (Relative mode).
 - (b) Searching patterns (grep).
 - (c) Directory listing.
 - (d) Sorting data of a File.
 - (e) Translating characters.
 - (f) Calculator.
 - (g) Changing password.

- (h) Stream Editor.
- (i) Slitting a file vertically.
- (j) Locate Duplicate and Non duplicate line.
- (k) Creating and displaying file.
- (l) Vamstat

5. Do as directed. **20**
- (a) Explain awk in detail. **5**
 - (b) Write short note on Process Management. **5**
 - (c) Write shell script (any **two**) : **10**
 - (1) Write a shell script which accepts a string from the user interactively, Reverse the string and print it.
Note : Do not use reverse function .
 - (2) Write a shell script which accepts a number from the user and prints the sum of its digits.
 - (3) Write a shell script that deletes all lines containing a specified word in one or more file. Supplied as arguments to it.
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