

M.Sc. (Part—I) Semester—II Examination

(CBCS Scheme)

COMPUTER SOFTWARE

Paper—VIII

(Free Open Source Software)

Time—Three Hours]

[Maximum Marks—80

1. (a) What is GNU ? Differentiate GNU and FOSS.

8

- (b) Explain the following shell commands with syntax and example :

(1) Copying files

(2) Logging in

(3) Changing files

(4) Moving files.

8

OR

2. (a) How to change file modes ? Explain with suitable examples.

8

- (b) Explain the TCP/IP networking and routing through ethernet with example.

8

3. (a) What is X-Windows system and their configuration ? Explain with suitable example.

8

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(Contd.)

- (b) What is booting process ? Explain the GNU/Linux booting process. 8

OR

4. (a) Explain in detail with suitable diagram of IMAP and POP3 services. 8
- (b) What are proxy services ? Explain with suitable example of http and Ftp proxy services. 8
5. (a) Define firewall. Explain firewall using netfilter and ip tables. 8
- (b) What is compiler ? Give the example of g++. 8

OR

6. (a) Explain :
 (1) auto conf.
 (2) auto gen. And how to generate make file using auto gen and auto conf. 8
- (b) Explain source code versioning and management tool. 8
7. (a) What is meant by linker ? Explain different libraries in GNU. 8
- (b) Explain :
 (1) Generating statically linked libraries and binaries.
 (2) Generating dynamically linked libraries. 8

OR

8. (a) Explain :
 (1) add
 (2) debugging
 (3) profiling. 8
- (b) Explain basics of X-Windows server architecture and their suitable diagram. 8
9. (a) Write a python code to find out factorial of a number using while loop. 8
- (b) Write a python code to findout summation and average of five different numbers using for loop. 8

OR

10. What is a function in python ? Explain the function used to draw a square pattern with example. 16