

B.A./B.Sc 4th Semester (Honours) Examination, 2019 (CBCS)

Subject : Mathematics

Paper : BMH4SEC 22

(Operating System : Linux)

Time: 2 Hours

Full Marks: 40

*The figures in the margin indicate full marks.
Candidates are required to give their answers in their own words
as far as practicable.*

Group-A

Marks : 10

1. Answer any five questions:

2×5=10

- (a) What do you mean by swap space of Linux OS?
- (b) What is shell script?
- (c) What is 'x-window system'?
- (d) What do you mean by Kernel of Linux OS?
- (e) What is boot loader? Give example.
- (f) Write two features of Linux.
- (g) What do you mean by super user?
- (h) How to add a user in linux?

Group-B

Marks : 10

2. Answer any two questions:

5×2=10

- (a) (i) State the purposes of the following commands:

- (I) *cp*
- (II) *mv*
- (III) *rm*

- (ii) What is the role of Richard Stallman with respect to Linux?

3+2=5

- (b) (i) Explain different file-types in Linux.
(ii) Differentiate between hard-link and soft-link.

3+2=5

- (c) (i) What is the purpose of home directory?
(ii) Discuss Linux directory structure.

1+4=5

- (d) (i) What is the purpose of an editor?
(ii) Discuss three commands of Vi editor.

2+3=5

Group-C

Marks : 20

3. Answer *any two* questions:

- (a) (i) With suitable diagram, explain Linux System Architecture.
(ii) What do you mean by "run-level" of Linux OS during booting?

10×2=20

- (b) (i) Explain different types of users and user management in Linux.
(ii) How would you broadcast a message to all users?

8+2=10

- (c) (i) What are the different advantages of Linux over UNIX?
(ii) Discuss the role of root in Linux Operating System.

8+2=10

- (d) Discuss the purposes of the following commands in brief:

5+5=10

- (i) *cut*
(ii) *grep*
(iii) *ls*

4+4+2=10
