

UNDERGRADUATE FOURTH SEMESTER (PROGRAMME) EXAMINATIONS, 2022

Subject: Mathematics

Course ID: 42110

Course Code: SP/MTH/404/SEC-2

Course Title: Operating System : Linux

Time: 2 hours

Full Marks: 40

The figures in the margin indicate full marks

Notations and symbols have their usual meaning

1. Answer *any five* of the following questions: (2×5=10)

- a) What are the different Shells available in Linux?
- b) What is the role of “passwd” command in Shell?
- c) What is dual booting?
- d) What is the function of “pwd” command available in Linux?
- e) What is meant by “ps-x”?
- f) Mention some Linux Operating systems.
- g) Write full form of GUI and CLI?
- h) What is Linux Kernel?

2. Answer *any four* of the following questions: (5×4=20)

- a) Define “vi” editor and explain its different modes.
- b) Explain major differences between Linux and Windows operating systems.
- c) Explain briefly about different shells used in different Linux operating systems.
- d) Why Linux is considered as more secured than other Operatingsystems?
- e) What is CLI? Write advantages and disadvantages of it.
- f) What is meant by I/O redirection and piping? What is “grep” command?

3. Answer *any one* of the following questions: (10×1=10)

- a) What are the file types available in Linux? Discuss file operators with suitable examples.
- b) What information is presented when the following commands are entered?
(i) date (ii) who (iii) tail (iv) bc (v) script
