

**B.SC. FOURTH SEMESTER (PROGRAMME) EXAMINATIONS, 2021**

**Subject: Mathematics**

**Course ID: 42110**

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

**Course Title: Operating System: Linux**

**Full Marks: 40**

**Time: 2 Hours**

**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) Name different Linux Shell.
  - b) Mention some Linux/Unix Operating system.
  - c) What are the different file systems used in Linux?
  - d) What is the main difference between Linux and Unix?
  - e) What are the permissions in Linux?
  - f) How can you append one file to another in Linux?
  - g) Can we use Linux OS through windows OS? How?
  - h) What is the maximum length for any file name under Linux?
  
2. Answer any **four** of the following questions: **5 × 4 = 20**
  - a) Explain briefly different shells used in different Linux operating systems.
  - b) Why Linux considered as more secured than other OS.
  - c) What are the purposes of following commands in Unix: chmod, chown, chgrp, gzip.
  - d) Explain basic components of Linux.
  - e) What is CLI? Write advantages and disadvantages of it.
  - f) Explain each field of /etc/passwd.
  
3. Answer any **one** of the following questions: **10 × 1 = 10**
  - a) Explain some Linux Distributions along with their usage.
  - b) Explain Linux architecture with suitable diagram.

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