BACHELOR OF TECHNOLOGY (C.B.C.S.) (2014 COURSE)
B.Tech.Sem - VI Information Technology : WINTER- 2022
SUBJECT : OPERATING SYSTEM

Day : Thursday

Time : 10:00 AM-01:00 PM

Date : 24-11-2022

W-13418-2022

Max. Marks : 60

N.B.:

1) All questions are **COMPULSORY**.
2) Figures to the **RIGHT** indicate **FULL** marks.
3) Assume suitable data if necessary.
4) Use of non-programmable **CALCULATOR** is allowed.

Q.1 What is operating system? Explain various function and objectives. **(10)**

OR

Write an evaluation of operating system and explain architecture of any one operating system.

Q.2 Discuss concept of process and explain multithreading. **(10)**

OR

What is Linux process? Explain Linux thread management in detail.

Q.3 What is deadlock? Write principles of deadlock and discuss deadlock **(10)** prevention mechanism.

OR

Explain synchronization and mutual exclusion in detail.

Q.4 What is paging? Explain segmentation in detail. **(10)**

OR

Explain difference between fixed and dynamic partitioning in detail.

Q.5 Explain I/O management and disk scheduling in detail. **(10)**

OR

What is file sharing? Explain Linux virtual file system in detail.

Q.6 What is NACH operating system? Explain in detail. **(10)**

OR

What is embedded operating system? Write characteristics of embedded operating system.

* * * *