

BACHELOR OF TECHNOLOGY (CBCS) (2014 COURSE)

Information Technology

B.Tech.Sem - VI :SUMMER : 2023

SUBJECT : OPERATING SYSTEM

Day : Monday

Time : 02:30 PM-05:30 PM

Date : 22-05-2023

S-13418-2023

Max. Marks : 60

**N.B:**

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

**Q.1** What are the objectives of Operating System? Explain in detail. (10)

**OR**

What are the advantages of peer to peer systems over client server systems? (10)

**Q.2** Differentiate between hard real time systems and soft real time systems. (10)

**OR**

State and explain multiprocessor thread scheduling approaches. (10)

**Q.3** What is virtual machine? Explain concept of virtualization in detail. (10)

**OR**

Illustrate with an example about OS as resource manager. (10)

**Q.4** What are the page replacement policies? Explain in detail. (10)

**OR**

Explain in detail file sharing and protection. (10)

**Q.5** Describe linux kernel module programming in detail. (10)

**OR**

Discuss any four responsibilities of OS file management activities in detail. (10)

**Q.6** Illustrate whether the time sharing differs from multi programming? (10)

**OR**

What are different ways to Handle Deadlock? Explain each with example. (10)

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