



NP – 316

III Semester B.C.A. Degree Examination, March/April 2023
(NEP Scheme)
(Freshers) (2022 – 23 and Onwards)
COMPUTER SCIENCE
Operating Systems.

Time : 2½ Hours

Max. Marks : 60

Instruction : Answer any four questions from each section.

SECTION – A

Answer any 4 questions. Each question carries 2 marks.

(4×2=8)

1. What is operating system ? Mention any two functions of OS.
 2. Mention the components of OS.
 3. What is deadlock ? Give an example.
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4. Define page fault and fragmentation.
5. Mention the various types of files.
6. What is disk formatting ?

SECTION – B

Answer any 4 questions. Each question carries 5 marks.

(4×5=20)

7. Explain different states of a process with neat diagram.
8. Explain critical section problem.
9. What is Semaphore ? Explain different types of Semaphores.
10. Explain first fit, best fit and worst fit allocation of memory.
11. Explain various file accessing methods.
12. Explain the disk structure.

SECTION – C

Answer any 4 questions. Each question carries 8 marks.

(4×8=32)

13. a) Explain real time and time sharing operating system.
b) Write a note on PCB.
14. a) What is system call ? Explain its types.
b) Discuss the deadlock prevention and avoidance.

(4+4)

(4+4)

P.T.O.

