SP-76

Total No. of Pages : 2

Seat No.	

S.Y.B.Tech. (Computer Science and Engineering AIML)
(Semester - IV) (CBCS) Examination, December - 2023
OPERATING SYSTEMS
Sub. Code: 86170

Day and Date : Saturday, 30 - 12 - 2023 **Total Marks : 70**

Time : 2.30 p.m. to 5.00 p.m.

Instructions :
1) **Question no. 6 is compulsory.**
2) **Solve any four questions from Q.No.1 to Q.No.5.**
3) **Assume suitable data wherever necessary.**
4) **Figures to the right indicate full marks.**

Q1) a) Explain types of operating system. **[8]**

b) Compare Sequential Execution and Multiprogramming Execution with diagram. **[7]**

Q2) a) Explain Design and Implementation of Operating System. **[8]**

b) Draw and explain PCB. **[7]**

Q3) a) Explain Nonpreemptive Scheduling Policies. **[8]**

b) Explain different Interprocess Communication Models with diagram. **[7]**

Q4) a) Explain different synchronization approaches. **[8]**

b) Explain uses of semaphores in concurrent system. **[7]**

P.T.O.

10606 10606 10606

Q5) a) Draw & explain managing the memory hierarchy. **[8]**

b) Explain User perspective file system tree with diagram. **[7]**

Q6) Write a short note on : (Any 2). **[10]**

a) Evolution of Operating system.

b) Comparison of paging and segmentation.

c) Architecture of UNIX System.

10606

10606

10606