

G. S. Mandal's
 Maharashtra Institute of Technology, Aurangabad
 (An Autonomous Institute)
 END SEMESTER EXAMINATION
First Year M.Tech(CST) -April/May 2022

Course Code : MTC104
 Duration : 2 Hrs

Course Name : Advanced Operating System
 Max. Marks : 50 Date : 11/04/2022

Instructions :

- i) All questions are compulsory
- ii) Assume suitable data wherever necessary and clearly state it
- iii) Figures to the right indicate full marks

Q. 1	Solve/Answer Any Five(Marks : 10)			
	Questions	Marks	CO	BL
a)	State any two characteristics of Distributed operating system	2	2	2
b)	What is the different Message Passing Primitives	2	2	2
c)	Give different approaches to detect deadlocks in distributed systems.	2	1	2
d)	What are two main policies of Cache Write.	2	2	2
e)	State any two Load Distributing Algorithms.	2	1	2
f)	Define the steps involved in task Migration.	2	1	2
Q. 2	What is multiprocessor operating system? Write any two advantages and disadvantages of multiprocessor operating system?	8	3	4
Q. 3	Explain interconnection network of multiprocessor operating system	8	3	4
Q. 4	Draw and Explain caching hypercube Architecture with proper example.	8	4	4
Q. 5	Draw and explain the structure of multiprocessor operating system? OR	8	5	5
Q. 5	Explain process scheduling in operating system	8	5	5
Q. 6	Explain concurrency control model in detail along with types of protocols OR	8	6	6
Q. 6	How can we use checkpoints in recovery of distributed operating system.	8	6	6