R18 Regulation

Subject code:107DB

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

(Autonomous, Accredited by NAAC with 'A+' Grade)

B.Tech VII Semester Supplementary Examinations, May 2025

OPERATING SYSTEM

(ECE)

Maximum Marks: 70 | Date:25.05.2025 | Duration: 3 hours

Note: 1.This question paper contains two parts A and B.
2. Part A is compulsory which carries 20 marks. Answer all questions in Part A.
3. Part B consists of 5 Units. Answer any one full question from each unit.
4. Each question carries 10 marks and may have a, b, c, d as sub questions.

Part-A

All the followin questions c s ual marks 10X2M=20 Marks

		Marks	CO	BTL
1	What is an o eratin s stem?	2M	1	L1
2	What do ou mean b a stem call?	2M	1	L1
3	What is a rocess?	2M	2	L1
4	What is the role of dis atcher?	2M	2	L1
5	Differentiate between lo ical virtual and physical address	2M	3	L1
6	What do you mean by Best fit?	2M	3	L1
7	What are the operations that can be erformed on a directo ?	2M	4	L1
8	What is a file?	2M	4	L1
9	What is deadlock? What is starvation? How do they differ from each other?	2M	5	L1
10	Write about oals of rotection?	2M	5	L1

Part-B

Answer All the following questions. (5X10M=50Marks)

		Marks	CO	BTL
11	What is need for system calls? Explain the types of system calls provided b an o eratin s stem with res ect to memo mana ement?	10M	1	L2
	OR			
12	Ex lain about o eratin s stem structure?	10M	1	L2
13	What is a rocess? Draw and ex lain rocess state with dia ram.	10M	2	L2
	OR			
14	What is a semaphore? Explain how producer-consumer problem is solved usin sema hores.	10M	2	L2
15	What is the need of demand a in ? Ex lain briefl .	10M	3	L2
	OR			
16	Ex lain in detail about se mentation with a in techni ue.	10M	3	L2
17	Ex lain briefl about free s ace mana ement	10M	4	L2
	OR			
18	Ex lain about directo structure in file s stem?	10M	4	L2
19	How can deadlock be detected and recovered? Explain in detail with relevant exam le?	10M	5	L2
	OR			
20	Ex lain about im lementation of access matrix?	10M	5	L2