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**Question Paper Code: 33205**

B.E. / B.Tech. DEGREE EXAMINATION, AUGUST 2021

Third Semester

Computer Science and Engineering

01UCS305 - OPERATING SYSTEMS

(Regulation 2013)

Duration: 1:45 hour

Maximum: 50 Marks

PART A - (10 x 2 = 20 Marks)

**(Answer any ten of the following questions)**

1. Define interrupt. How will you handle interrupt?
2. What is system call? Give examples.
3. What is busy - waiting? Is it preferable over blocking wait? Give reason.
4. What is meant by context switch?
5. What is Belady's anomaly?
6. Define effective access time.
7. What are the functions of virtual file system (VFS)?
8. What is disk stripping?
9. Define rotational latency and disk bandwidth?
10. What is meant by Para virtualization.
11. Write the advantage of microkernel over monolithic kernel.
12. Mention the four benefits of multi-threaded programming.
13. What is busy-waiting? Is it preferable over blocking wait? Give reason.
14. What is the use of wait-for graph? Give an example.

15. What is Belady's anomaly?

PART – B (3 x 10= 30 Marks)

**(Answer any three of the following questions)**

16. Explain briefly about the operating system services. (10)
17. With a help of diagram discuss the structure of a monitor. (10)
18. Give the basic concepts about paging and give a note on techniques for structuring the page table. (10)
19. Enumerate why file protection is necessary? Write notes about the protection strategies provided for files. (10)
20. Outline the concept kernel I/O subsystem. (10)