20U687S (Pages: 2) Name: ……

Reg. No: ……

SIXTH SEMESTER B.Sc. DEGREE EXAMINATION, APRIL 2023

(CUCBCSS-UG)

CC17U BCS6 B12 - OPERATING SYSTEMS

(Computer Science - Core Course)

(2017, 2018 Admissions – Supplementary/Improvement)

Time: Three Hours Maximum: 80 Marks

PART A

Answer ***all*** questions. Each question carries 1 mark.

1. Define PCB.
2. Mention any two types of OS.
3. Use of cat command is _____
4. File permission to execute is _____
5. Real address is also called _____
6. Define starvation.
7. Examples of Preemptive scheduling
8. What is TLB?
9. What is authentication?
10. Give example of any two mobile OS.

(10 × 1 = 10 Marks)

PART B

Answer ***all*** questions. Each question carries 3 marks.

11. Explain the term degree of multiprogramming?
12. What are the different file permissions in Linux?
13. Explain the characteristics of a good process scheduler.
14. Describe the term page fault.
15. Describe the term Authorization.

(5 × 3 = 15 Marks)

PART C

Answer any ***five*** questions. Each question carries 5 marks.

16. Explain the functions of OS.
17. Describe booting process.
18. Explain the process states with a neat diagram.
19. Explain file accessing methods.

20. Describe different methods for allocation in a File System.

21. Illustrate any two page replacement algorithm.

22. Describe Belady's Anomaly.

23. Describe the features and architecture of Android OS.

(5 × 5 = 25 Marks)

PART D

Answer any ***three*** questions. Each question carries 10 marks.

24. Explain deadlock conditions and Banker's algorithm.

25. Explain different types of operating systems.

26. What are the different file permissions in Linux.

27. With proper examples mention different CPU scheduling algorithms.

28. Distinguish Authentication and Authorization.

(3 × 10 = 30 Marks)

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