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Name.....

Reg. No.....

**SIXTH SEMESTER U.G. DEGREE EXAMINATION, MARCH 2023**

BCA/Computer Science

BCA/BCS 6B 12—OPERATING SYSTEMS

(2019 Admission onwards)

Time : Two Hours

Maximum : 60 Marks

**Section A (Short Answer Type Questions)**

*Answer all questions.*

*Each correct answer carries a maximum of 2 marks.*

*Ceiling 20 marks.*

1. What are the different types of operating system ?
2. Define an operating system and its functions.
3. Explain file systems.
4. What do you mean shell programming ?
5. What do understand by the term Korn shell ?
6. Mention any two Command for Navigating the Linux File systems.
7. What is PCB ?
8. Explain Process scheduling with example.
9. Explain Different Process operations.
10. What is Paging and explain its advantage ?
11. Differentiate between time Sharing Systems and distributed Systems.
12. Explain the features of real time operating system.

(Ceiling : 20)

**Section B**

*Answer all questions.*

*Each correct answer carries a maximum of 5 marks.*

*Ceiling 30 marks.*

13. What is the difference between Dynamic Loading, Dynamic Linking ?
14. What do you understand by the term thread ?
15. Explain the shortest job scheduling in detail.

**Turn over**



16. Give a description about Dining Philosopher problem.
17. Explain client server system with example.
18. What is the difference between paging and segmentation.
19. Explain the difference between logical address space and physical address space.

### Section C

*Answer any **one** question, each correct answer carries 10 marks.*

20. Explain the concepts of Contiguous and non-Contiguous Memory allocation in detail.
21. Explain the Android Operating system with its features.

(1 × 10)