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		Reg. No.

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

BCA/Computer Science

### BCA/BCS 6B 12—OPERATING SYSTEMS

(2019 Admission owards)

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

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- 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.

(Ceiling 30)

### **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.

 $(1 \times 10 = 10 \text{ marks})$