C 20517 (Pages : 2) Name..................................

Reg. No.............................

SIXTH SEMESTER U.G. DEGREE EXAMINATION, MARCH 2022

(CBCSS—UG)

B.C.A.

BCA 6B 12—OPERATING SYSTEMS

(2019 Admissions)

Time : Two Hours Maximum : 60 Marks

Section A (Short Answer Type Questions)

Answer at least **eight** *questions.*
Each question carries 3 *marks.*
All questions can be attended.
Overall Ceiling 24.

1. What is the function of an operating system ?

2. Define an operating system.

3. Explain serial processing with example ?

4. What do you mean shell programming ?

5. What do understand by the term Bash ?

6. Mention any *two* iterative command in linux.

7. What is CPU Scheduling ?

8. Explain Process scheduling with example.

9. What is Overlay ?

10. What is Page replacement and explain its advantage ?

11. Differentiate between authentication and authorization.

12. Explain the features of mobile OS ?

(8 × 3 = 24 marks)

Turn over

Section B

Answer at least **five** *questions.*
Each question carries 5 marks.
All questions can be attended.
Overall Ceiling 25.

13. Briefly explain the scope of Priority scheduling.

14. What do you understand by the term thread ?

15. Explain the scheduling criteria in detail.

16. Give a description about classical synchronization problem with example.

17. Explain client server system with example.

18. Explain the difference between paging and segmentation.

19. Explain the concept of virtual memory.

(5 × 5 = 25 marks)

Section C

Answer any **one** *question.*
The question carries 11 marks.

20. Explain critical section problem in detail.

21. Explain the UNIX Operating system with its features.

(1 × 11 = 11 marks)