[21-BS425-B]
AT THE END OF FOURTH SEMESTER - (CBCS PATTERN) DEGREE EXAMINATIONS COMPUTER SCIENCE IV(B) - OPERATING SYSTEMS UG PROGRAM (4 YEARS HONORS)
(w.e.f. Admitted Batch 2020-21)

Time : 3 Hours   **Maximum : 75 Marks**

SECTION - A

I.   **Answer any FIVE questions.**   (5×5=25)

1. Define Operating system. Explain the brief history of Operating system.

2. Briefly explain about system calls.

3. Explain in detail about process state diagram.

4. Discuss about Virtual memory.

5. Write about Android Development Framework.

6. Write about process Scheduling.

7. Write about thread issues.

8. Write about logical and physical addresses.

SECTION - B

II. **Answer ALL the questions.** (5×10=50)

9. a) Explain objectives and functions of an operating system.

(OR)

b) Explain about various types of operating systems.

10. a) What is Thread? Explain about Threads and its types.

(OR)

b) Write about scheduling algorithms.

11. a) What is Deadlock? Explain methods for handling deadlocks.

(OR)

b) What is Process Synchronization? Explain Critical section problem.

12. a) Write about Continguous memory allocation.

(OR)

b) Explain about paging concept.

13. a) Describe the file allocation methods.

(OR)

b) Discuss about Disk Scheduling algorithms.