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**SAINTGITS COLLEGE OF APPLIED SCIENCES**

**SECOND INTERNAL ASSESSMENT EXAMINATION, MARCH 2019**

**Department of B.C.A , Semester III**

**OPERATING SYSTEMS**

Total : **80 marks** Time:**3Hours**

**Section A**

*Answer any 10 questions. Each question carries 2 marks.*

1. What do you mean by multi-programming?

2.Explain OS structure?

3.Explain the term process?

4.Explain long term and short term Schedulers?

5.What do you mean by process termination?

6.What is despatcher?

7.Define safe state?

8.What is physical address?

9.Explain demand paging?

10.What is meant by page replacement?

11.Define File?

12.What is meant by counting?

 **(10 X 2 = 20 marks)**

**Section B**

*Answer any 6 questions. Each question carries 5 marks.*

13. Explain the services provided by the OS to the user?

14. Write short notes on scheduling criteria?

15. Explain priority queue scheduling with an example?

16. What is a monitor? Briefly explain?

17.Discuss about the necessary conditions of a dead lock?

18.Discuss about dead lock detection?

19.Explain segmentation?

20. Explain dead lock avoidance?

21.Explain FIFO and RR algorithms?

**(6 X 5 = 30marks)**

**Section C**

*Answer any 2questions. It carries 15marks.*

22.Explain the types of system calls?

23Briefly explain inter process communication?

24.Explain dead lock prevention in details?

25.Explain paging in detail?

 **(2 X 15 = 30 marks)**

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