Duration: 3 Hours

Reg No.:\_\_\_\_

Max. Marks: 100

Name:\_

#### APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

Fifth Semester B.Tech Degree Examination December 2021 (2019 scheme)

#### Course Code: ITT303

#### Course Name: OPERATING SYSTEM CONCEPTS

|     |     | PART A (Answer all questions: each question carries 3 marks)  | Marks      |
|-----|-----|---|------------|
| 301 |     | (Answer all questions; each question carries 3 marks)  Explain the difference between kernel and shell. | Marks<br>3 |
|     |     |   | 55.5       |
| 2   |     |   | 3          |
|     |     | call return any value in count other than n? If so, why?  |            |
| 3   |     | The long-term scheduler controls the degree of multiprogramming. Justify                                | 3          |
|     |     | your answer.  |            |
| 4   |     | How indefinite blocking is solved by priority scheduling?   | 3          |
| 5   |     | What is race condition?   | 3          |
| 6   |     | What are the necessary conditions for a deadlock situation?   | 3          |
| 7   |     | Illustrate the difference between internal and external fragmentation.                                  | 3          |
| 8   |     | Explain Belady's anomaly with an example.   | 3          |
| 9   |     | What are the advantages of acyclic graph directory over tree structured                                 | 3          |
|     |     | directory?  |            |
| 10  |     | How can bad blocks in disks be handled?   | 3          |
|     |     | PART B (Answer one full question from each module, each question carries 14 marks)                      |            |
|     |     | Module -1   |            |
| 11  | a() | Explain basic functions of Operating System.  | 7          |
|     | ь)  | What is a system call? What are the different ways to pass parameters to                                | 7          |
|     |     | system call? Explain basic types of system call with examples.  |            |
| 12  | a() | Explain various Operating System structures.  | 8          |
|     | b)  | What is an Operating System? Explain different types of Operating System.                               | 6          |
|     |     | Module -2   |            |
| 13  | a() | What is Inter Process Communication? Explain how IPC performed by using                                 | 8          |
|     |     | shared memory and pipes.  |            |
|     | b)  | What is Process Control Block? Explain the fields in PCB.   | 6          |
|     |     |   |            |

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**Tao Wei** 

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