

Assignment 1

KENYA METHODIST UNIVERSITY

COURSE CODE : BBIT 213/CISY 300

COURSE TITLE : Computer Operating Systems 1 CAT

Answer all the questions

1. Define the term Operating system 2 marks
2. Discuss any four advantages of multithreading in a multiprogramming environment. 4 marks
3. Discuss any four types of operating systems 4 marks
4. Discuss the role of the following schedulers in process control:
 - i. Short term scheduler
 - ii. Medium term scheduler
 - iii. Long term scheduler3 marks
5. Explain any five memory management requirements. 5 marks
6. Describe briefly Main memory management based on the following:
 - i. Fixed Memory partition 2 marks
 - ii. Dynamic memory partition 2 marks
7. The table below shows jobs submitted for execution in a computer system with time sharing capability:

| Job | Arrival time | CPU burst |
|-----|--------------|-----------|
| A | 0 | 10 |
| B | 1 | 3 |
| C | 3 | 2 |
| D | 5 | 5 |

The arrival time and CPU burst are arbitrary units.

Using the table, construct Gantt chart for Shortest Job First (SJF) scheduling algorithm and work out the Average Turnaround Time and Average Waiting Time. 3 marks

(8) Describe the operation of the Virtual Memory.

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