

**Council for Technical Education and Vocational Training**  
**Office of the Controller of Examinations**  
Sanothimi, Bhaktapur  
**Regular/Back Exam-2075, Falgun/Chaitra**

**Program:** Diploma in Computer Engineering  
**Year/Part:** III/II (2010)  
**Subject:** Applied Operating System

**Full Marks:** 80  
**Pass Marks:** 32  
**Time:** 3 hrs

*Candidates are required to give their answers in their own words as far as practicable. The figures in the margin indicate full marks.*

**Attempt (Any Eight) questions.**

1. Describe operating system. Explain OS as virtual machine and resource manager. [2+4+4]
2. Differentiate between process and threads. Explain Dekker's Algorithm. [2+2+6]
3. Explain virtual exclusion, context switching, critical section, race condition with examples. [2.5+2.5+2.5+2.5]
4. Define preemptive and non-preemptive scheduling. Explain shortest job first algorithm with example. [2+2+6]
5. Explain classical IPC problems. Consider following set of process having their burst time mentioned in milliseconds. [4+6]

Process	Arrival Time	Burst Time
P <sub>0</sub>	0	5
P <sub>1</sub>	1	3
P <sub>2</sub>	2	8
P <sub>3</sub>	3	6

Calculate the average waiting time using round-robin algorithm with quantum of 3 millisecond.

6. Explain deadlock. Write short notes on starvation. [5+5]
7. Explain page replacement algorithm and its types. [10]
8. What do you mean by memory management? Explain contiguous and non-contiguous storage allocation in brief. [4+3+3]
9. Write Short Notes on (Any Two) [2x5=10]
  - a) Virtual Memory
  - b) Mass-storage device
  - c) Swap space management

**Good Luck**

# Diploma Computer Engineering Objective Questions And Answers

**Manoj Dole**



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