

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 ₀	0	5
P ₁	1	3
P ₂	2	8
P ₃	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

B Lingard



Diploma Computer Engineering Objective Questions And Answers:

Unveiling the Magic of Words: A Review of "**Diploma Computer Engineering Objective Questions And Answers**"

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