

PAN AFRICA CHRISTIAN UNIVERSITY

BACHELORS OF INFORMATION COMMUNICATION TECHNOLOGY

END OF TERM EXAMINATION

DEPARTMENT: COMPUTING & INFORMATION TECHNOLOGY

COURSE CODE: BCIT 103

CAMPUS: ROYSAMBU

COURSE TITLE: BCIT 103 PRINCIPLES OF OPERATING SYSTEMS

EXAM DATE:

TIME:

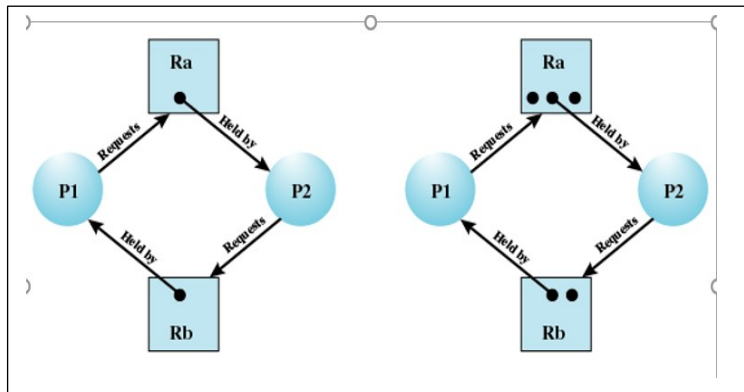
INSTRUCTIONS

- This exam carry a total of SIX Questions of [10 Marks Each]
- Section One (I) is compulsory.
- Answer any 3(Three) Questions from Section Two (II)
- Read all questions carefully before attempting.

Section One Compulsory 10 marks

Question One.

- a) What scenarios while using your computer would relate to a deadlock environment. **[4 marks]**
- b) Discuss the processes shown in the diagrams below. **[6 marks]**



Section Two Attempt any Three Questions.

Question Two.

- a) Discuss THREE types of Scheduling algorithms and their aims. **[6 marks]**
- b) Explain the Five State Process Model. **[4 marks]**

Question Three

Based on your exposure and use of various operating system, discuss FIVE threats you have encountered that affect most of those Operating systems. **[10 Marks]**

Question Four

- a) Compare the nature and background of UNIX and MS-Dos. **[5 Marks]**
- b) Explain the nature of real time system **[5 Marks]**

Question Five.

State and discuss the abstract view of computer components. **[6 marks]**

Differentiate between Pre-emptive and Non-pre-emptive Scheduling. **[4 marks]**

Question Six.

Explain in a real life the application of the following concepts as used in operating systems:

- a) Thread. **[2 marks]**
- b) Batch Processing. **[2 marks]**
- c) Process scheduling. **[2 marks]**

d) Multiprogramming.

[2 marks]

e) Mutual exclusion

[2 marks]

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