Started on	Thursday, 11 April 2024, 9:42 PM
State	Finished
Completed on	Thursday, 11 April 2024, 9:47 PM
Time taken	4 mins 26 secs
Grade	2.00 out of 2.00 (100%)

Question 1

Correct

Mark 1.00 out of 1.00

Deadlocks: Mark the assertments which are true.

Select one or more:

- a. A deadlock is a state in which each member of a group is waiting for another member, including This is one of the options itself, to take some action. which is true.
- 🗾 b. If a process is unable to change its state indefinitely because the resources requested by it are being used by another 🗸 True! (one of waiting process, then the system is said to be in a deadlock. them)
- c. If a deadlock occurs it is necessary to have external intervention, such as terminating processes, which is true! because the deadlock will never be solved autonomously.

This is one of the options

Your answer is correct.

The correct answers are: A deadlock is a state in which each member of a group is waiting for another member, including itself, to take some action., If a process is unable to change its state indefinitely because the resources requested by it are being used by another waiting process, then the system is said to be in a deadlock., If a deadlock occurs it is necessary to have external intervention, such as terminating processes, because the deadlock will never be solved autonomously.

Question 2

Correct

Mark 1.00 out of 1.00

In the example shown in the video, the two processes block waiting for each other (deadlock). One way to avoid the deadlock is by:

Select one or more:

- 🗾 a. By using a different order for sending and receiving in process 0 and process 1: Only one of them should send first 💉 True! (one of while the other should receive first. them)
- ☑ b. Using MPI_Isend which returns immediately and does not block. ✓ True! (one of them)

Your answer is correct.

The correct answers are: Using MPI_Isend which returns immediately and does not block. , By using a different order for sending and receiving in process 0 and process 1: Only one of them should send first while the other should receive first.