CMSM4124:CIA1

Total points   20/20   ?

FM: 20 TIME:30 MINUTES

ROLL *

561

NAME: *

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✓   1. State whether the following statement is true or false. "IPC is one kind of RPC." *   1/1

○ True

● False   ✓

✓   2. Which of the following is(are) reason(s) for providing an environment that allows process cooperation? *   1/1

☑ Information sharing   ✓

☑ Speedup   ✓

☑ Modularity ✓

☑ Convenience ✓

☑ Privilege Separation ✓

✓ 3. In Message Passing based on Distributed Operating Systems, the naming technique(s) can be _____. *   1/1

☑ Look Up Tables ✓

☑ Algorithmic ✓

☑ Combination of the above two ✓

☐ None of the above

✓ 4. How can the scaling dimensions be measured in Message Passing? *   1/1

◯ Administratively and Structurally

◉ Administratively, Geographically and by Size ✓

◯ Geographically and by Size

◯ None of the above

✓ 5. In Message Passing, what does Replication increase? *   1/1

◯ Consistency

◯ Reliability and Scalability

◯ Flexibility and Performance

○ Availability and Balancing Load Distribution   ✓

✓ 6. How many Distributed Computing System Models are present in Distributed Operating   1/1
Systems? *

5 _____   ✓

Feedback

5 Models .. Minicomputer, Workstation, Workstation Server, Processor Pool, and Hybrid

✓ 7. "In Distributed Shared Memory, the memory managers are shared with one another".   1/1
State true or False. *

◉ True   ✓

○ False

✓ 8. What are the message passing primitive commands? *   1/1

☐ Acknowledge and Receive

☐ Send and Acknowledge

☑ Send and Receive   ✓

☐ None of the above

✓   9. What are the different types of methods use for sending and receiving data in Message   1/1
Passing? *

   ○   Standard and Un-buffered Methods

   ○   Synchronous and Asynchronous Methods

   ○   Blocking and Non-Blocking Methods

   ⦿   All of the above   ✓

✓   10. How many levels of compatibility are there in Message Passing during interoperability   1/1
among the resources in the system? *

3   ✓

Feedback

Binary Level, Execution Level & Protocol Level

✓   11. Middleware tier resides in between _____ *   1/1

   ○   Application Tier and Server Tier

   ○   Client Tier and Server Tier

   ⦿   All of the above   ✓

○ None of the above

✓ **12. What is the difference between Inter-process communication and intra-process communication?** *　　　　　1/1

⦿ Inter-Process communication is communication between processes but intra-process communication is communication between threads　　　✓

○ Inter-Process communication is communication between devices but intra-process communication is communication between processes

○ Inter-Process communication is communication between threads but intra-process communication is communication between processes

○ None of the above.

✓ **13. The statement – "The idea of IPC is based on Task Control Architecture (TCA)" is ----.** 1/1
*

○ False

⦿ True　　　　　　　　　　　　　　　　　　　　　　　✓

✓ **14. Can recursive call of main() function be treated as IPC?** *　　　1/1

⦿ Yes　　　　　　　　　　　　　　　　　　　　　　　　✓

○ No

✓ 15. State the output of the code snippet: int a[ ] [ ] = new int [4] [5];   1/1
    System.out.print(a.length); *

○ 20

○ 5

◉ 4   ✓

○ Runtime error

✓ 16. The following declaration is allowed in Java: float f = 3.14; *   1/1

◉ False   ✓

○ True

✓ 17. State the output of the following code: System.out.println (-2 >> 5); *   1/1

○ 0

○ 1

◉ -1   ✓

○ -2

18. What will be the output of the following code? byte b = (byte)130; System.out.println(b); *   1/1

○ 0

○ -128

○ -127

◉ -126   ✓

19. What will happen in connection with the following two statements? String st; System.out.println(st.length()); *   1/1

◉ Compilation error   ✓

○ Runtime error

○ Successful execution with 0 as the output

○ Successful execution but with no output

20. What will happen in connection with the following two statements? String st = new String(); System.out.println(st.length()); *   1/1

○ Compilation error

○ Runtime error

Successful execution with 0 as the output   ✓

Successful execution but with no output

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