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國立中央大學94學年度碩士班考試入學試題卷 共 / 頁 第 / 頁
所別：網路學習科技研究所碩士班 科目：作業系統

1. As a process execute, it changes state. The state of a process is defined in part by the current activity of that process. Each process may be in one of five states, please address what are the five states. (20%)
2. Please explain what are *Context Switch* and *Memory Swap*? (20%)
3. Consider a client user needs to send a request which is handled by a remote server, there are many communication methods can be used such as Sockets, Remote Procedure Calls, and Remote Method Invocation. Please explain what are *Sockets*, *Remote Procedure Calls*, and *Remote Method Invocation*? (30%)
4. For the concerns of kernel I/O system, please explain what are *Buffering*, *Caching*, and *Spooling*? (30%)