請於答案卷作答，違者不予計分

1. Please describe the reasons why thrashing may occur.　　15%

2. Please describe in what circumstances a process will enter its waiting state (also called block state).　　10%

3. Please describe the main tasks of a short-term scheduler.　　15%

4. Please define the response time and turnaround time of a process.　15%

5. There are three methods to process a deadlock, i.e., deadlock prevention, deadlock avoidance and deadlock detection. Please describe how to prevent a deadlock.　　15%

6. Please define a reentrant code (someone calls it pure code).　　15%

7. Please describe the index structure of a file.　　15%