國立台灣大學九十三學年度碩士班招生考試試題

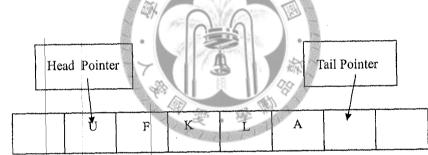
科目:計算機概論(B)

題號: 441

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※注意:請於答案卷上依序作答,並應註明作答之題號。

- (a)Please explain what a time-sharing system is. (5points)
 (b)Identify a situation in a time-sharing system in which a process does not consume the entire time slice allocated to it. (10points)
- 2. Please explain what File Allocation Table (FAT) is. (5points)
- 3. List in chronological order the major events that take place when a process is interrupted. (15 points)
- 4. List the four layers in the Internet software hierarchy and identify a task performed by each layer. (20 points)
- 5. List the two basic differences between TCP and UDP. (5points)
- 6. (a) Show the hexadecimal representation (32 bits) of integer 10231. (5points) (b) Show the hexadecimal representation (32 bits) of integer -10231 in two complement format. (5points)
- 7. Suppose a queue implemented in a circular fashion is in the state shown in the figure below. Draw a diagram showing the structure after the letters G and R are inserted, three letters are removed, and the letters D and P are inserted (15 points)



8. Draw a binary tree that you could use to store the list R, S, T, U, V, W, X, Y, and Z for further searching. (15 points)