

1. Applications of Data Compressions

- ☐ A Multimedia
- ☐ B Communications
- ☐ C Databases
- ☐ D All the above

2. Why do we need to compress a file ?

- ☐ A save space when storing it.
- ☐ B save time when transmitting it
- ☐ C Most of file have lots of redundancy.

3. Substring search is implemented via NFA simulation.

Is the above statement is valid or not ?

- ☐ A True
- ☐ B False

4. Concatenation has lower precedence than or.

Is the above statement is true or false ?

- ☐ A True
- ☐ B False

5. $C(A C \mid B) D$ specifies the language $\{C A C D, C B D\}$.

Is above statement is true or false ?

- ☐ A True
- ☐ B False

6. Which of following is based on the idea that we can save bits by encoding frequently used characters with fewer bits than rarely used characters, thereby lowering the total number of bits used.

- ☐ A Huffman
- ☐ B LZW
- ☐ C Burrows Wheeler
- ☐ D Run Length

7. To represent fixed length symbols with variable length codes, which algorithm we can use ?

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