

1. Which if the following scenarios where REs are used ?

- ☐ A Sub-string Search
- ☐ B Validity checking
- ☐ C Genomics
- ☐ D Search Engines

2. RE pattern matching is implemented via DFA simulation.
Is the above statement is valid or not ?

- ☐ A True
- ☐ B False

3. Substring search is implemented via NFA simulation.
Is the above statement is valid or not ?

- ☐ A True
- ☐ B False

4. Determining whether an N-character text string is recognized by the NFA corresponding to an M-character RE takes time proportional to NM in the worst case.

- ☐ A True
- ☐ B False

5. Why we need to compress a file ?

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

6. Applications of Data Compression ?

- ☐ A Multimedia
- ☐ B Communications
- ☐ C Data bases
- ☐ D All of the above

7. No Algorithm can compress every bitstring.

- ☐ A True
- ☐ B False

8. Compression Ratio = Bits in a compressed version of bitstream/ Bits in the original version of bitstream.

- ☐ A True
- ☐ B False