1. Which key combination is used to find out a pattern in text?

CTRL – F          CTRL – Z          CTRL – A          CTRL – B

2. Which of these algorithms is used for pattern matching?

Brute force algorithm      Robin-Karp algorithm      Knuth Morris algorithm      All of the above

3. _____ is the process of recognizing patterns by using machine learning algorithm.

Processed data      Literate statistical programming      Pattern recognition      Likelihood

4. Brute force technique of pattern matching is a kind of

Linear searching algorithm      Dynamic searching algorithm      Non-linear searching algorithm      None of the above

5. The complexity of brute force pattern matching algorithm is

$O(n)$          $O(m)$          $O(nm)$          None of the above

6. jth character of the pattern will be compared with _____ character of main string.

ith          j-i th          j-i+1 th          j+i-1 th

7. Which of these is a drawback of Brute force pattern matching algorithm?

Extra work needs to be done      Does not study the pattern      It works blindly      All of the above

8. Which concept is used in Knuth-Morris-Pratt algorithm?

Prefix          Suffix          π table          All of the above

9. How many index variables are required for Knuth-Morris-Pratt algorithm?

1          2          3          4

10. The Boyer Moore implements

Bad Character Heuristic      Good Suffix Heuristic      Both of the above      None of the above

11. What is the formula for constructing bad mach table?

| Value = length of pattern index+1 | Value = length of pattern index-1 | Value = length of pattern index*1 | Value = length of pattern index/1 |

**12.** What is the key feature of Boyer Moore algorithm?

| Matching on head of pattern | Matching on tail of pattern | Matching on median of pattern | None of the above |

**13.** What is the worst case performance of Boyer Moore algorithm?

| O (n) | O (m) | O (n+m) | O (nm) |

**14.** In worst case, what is the time complexity of Brute force pattern matching algorithm?

| $O(n)$ | $O(m)$ | Correct $O(nm)$ | $O(n^2 m)$ |

**15.** 

Given a text array [1…n] and a pattern array [1…m], what should be the condition for pattern matching?

| Only $m<n$ | Only $m=n$ | Correct Either of the above | None of the above |

**16.** In which applications, the pattern matching algorithm is applied?

| Digital forensic | Search engines | Plagiarism detection | All of the above |

**17.** Brute force technique of pattern matching is a kind of

| Linear searching algorithm | Dynamic searching algorithm | Non-linear searching algorithm | None of the above |

**18.** The complexity of brute force pattern matching algorithm is

| (n) | (m) | (nm) | None of the above |

**19.** What is the time complexity of Knuth-Morris-Pratt algorithm?

| (1) | (n) | Correct $(n^2)$ | $(n^3)$ |

**20.** What is the worst case performance of Boyer Moore algorithm?

| (n) | (m) | (n+m) | (nm) |