

50+ Sparse Matrix MCQs with FREE PDF

1. Which one of the following is a Special Sparse Matrix?

- a) Band Matrix
- b) Skew Matrix
- c) Null matrix
- d) Unit matrix

Answer: Band Matrix

2. In what way the Symmetry Sparse Matrix can be stored efficiently?

- a) Heap
- b) Binary tree
- c) Hash table
- d) Adjacency List

Answer: Binary tree

3. The matrix contains m rows and n columns. The matrix is called Sparse Matrix if _____

- a) Total number of Zero elements $> (m*n)/2$
- b) Total number of Zero elements $= m + n$
- c) Total number of Zero elements $= m/n$
- d) Total number of Zero elements $= m-n$

Answer: Total number of Zero elements $> (m*n)/2$

4. Which of the following is not the method to represent Sparse Matrix?

- a) Dictionary of Keys
- b) Linked List
- c) Array
- d) Heap

Answer: Heap

5. Which matrix has most of the elements (not all) as Zero?

- a) Identity Matrix
- b) Unit Matrix
- c) Sparse Matrix
- d) Zero Matrix

Answer: Sparse Matrix

6. *What is the relation between Sparsity and Density of a matrix?*

- a) Sparsity = 1 – Density
- b) Sparsity = 1 + Density
- c) Sparsity = Density*Total number of elements
- d) Sparsity = Density/Total number of elements

Answer: Sparsity = 1 – Density

7. *Who coined the term Sparse Matrix?*

- a) Harry Markowitz
- b) James Sylvester
- c) Chris Messina
- d) Arthur Cayley

Answer: Harry Markowitz

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