

NOTE: 1) All Questions are compulsory.
2) Figures to the right indicate full marks.

JDS-1

Q.1. Attempt any two

[10]

- Write short note on Java Buzzwords.
- Explain constructors and its types.
- Explain different operators in java.
- Explain one dimensional array with an example.

Q. 2. Attempt any two

[10]

- Explain different types of inheritance in java.
- Explain user defined package with an example.
- List the built in exceptions in java.
- Explain following keywords:
1) try-catch 2) throws 3) finally

Q. 3. Attempt any two

[10]

- Explain ByteStream classes.
- Explain different methods of FileReader class.
- Write short note on BufferedReader.
- Explain FileOutputStream class with its constructor.

Q. 4. Attempt any two

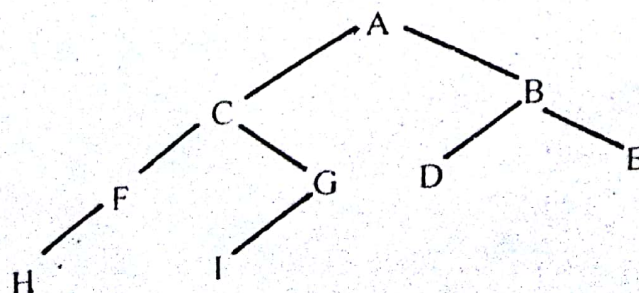
[10]

- Explain linear array with an example.
- Write an algorithm for binary search.
- Write short note on algorithm and its notations.
- Write an algorithm to insert element in queue.

Q. 5. Attempt any two

[10]

- Write short note on traversing in linked list.
- Binary tree T has 9 nodes. Generate the tree according to inorder and postorder of tree.
Inorder : EFCKAHDBG
Postorder : DGHBFKECA
- Write an algorithm to insert an element in linked list at the beginning.
- Explain preorder, inorder and postorder of following tree:



Q. 6. Attempt any two

- a) Write warshall's algorithm for finding shortest path.
- b) Explain different types of graphs.
- c) Write an algorithm to insert element in heap.
- d) Write an algorithm for insertion sort.

[10]

Q. 7. Attempt any three

- a) Explain how the multiple inheritance can be implemented in java.
- b) Explain CharacterStream classes.
- c) Explain java finalize () method with an example.
- d) Write an algorithm to delete element from queue.
- e) Write an algorithm to delete element from linked list.
- f) Write an algorithm for selection sort.

[15]

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