b. What are the different traversal techniques of a binary tree? **(06 Marks)**
c. Define a max heap. Write a C function to insert an item into max heap. **(04 Marks)**

6 a. What is a selection tree? Explain two types of selection tree. **(10 Marks)**
b. Define adjacency matrix and adjacency list for the following graph in Fig.Q6(b).

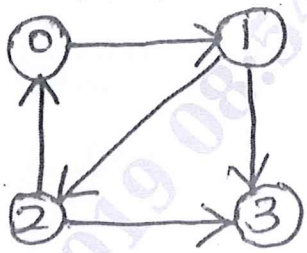

Fig.Q6(b)

c. Define forest with examples. **(06 Marks)** **(04 Marks)**

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7 a. What are the various types of leftist trees? **(08 Marks)**
b. What is binomial heap? What are the types of binomial heaps? **(06 Marks)**
c. What is priority queue? Explain single ended, double ended priority queue. **(06 Marks)**

8 a. What is an AVL tree? Explain different types of rotations in AVL tree. **(10 Marks)**
b. Explain Red-Black tree. How a red-black tree represented? **(04 Marks)**
c. What is a splay tree? What are the advantages of splay tree? What are the types of splay tree? **(06 Marks)**

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