1. Answer the following questions   Marks

 a. Is it possible for an Indexing to be **Secondary** and **Sparse** at the same time?   [2]
    Explain your answer briefly.

 b. Consider the following scenarios.   [2]
    i) A website has searches that perform **point queries** most of the time.
    ii) A website has searches that perform **range queries** most of the time.

    Now, write which **Indexing** you should use on the above-mentioned websites.
    Give proper reasoning.

2. Construct a **B+ tree** for the following set of key values, where each internal node can   [16]
   have at most **4 child nodes**. Assume that the tree is initially empty and values are
   added sequentially one by one.

[SuAH]