



United International University

Department of Computer Science and Engineering

CSE 3521, Database Management Systems, **Fall 2021**

Class Test-3, Total Marks: **20**, Time: **30 minutes**, Section: **B**

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| 1. Answer the following questions | Marks |
| a. Is it possible for an Indexing to be Secondary and Sparse at the same time?
Explain your answer briefly. | [2] |
| 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. | |
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|---|------|
| 2. Construct a B+ tree for the following set of key values, where each internal node can have at most 4 child nodes . Assume that the tree is initially empty and values are added sequentially one by one. | [16] |
|---|------|

[SuAH]