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## Thapar Institute of Engineering and Technology (TIET), Patiala Department of Computer Science & Engineering (CSED) MST EXAMINATION

| MST EXAMINATION  |  |                  |  |
|--|--|------------------|--|
| B. E. (Third Year): Semester-VI  | Course Code: UCS661<br>Course Name: Database Engineer                                |                  |  |
| March 6, 2023  | Monday, Time: 10:30 am to 12:30 pm   |                  |  |
| Duration: 2.00 Hrs, Max. Marks: 25   | Name of Instructor: Dr. Sumana Maiti   |                  |  |
| Note: Attempt all questions in sequencise while writing.   | ence. Assume any missing data. Please be   | e precise and    |  |
| Q. 1. Consider the following document { _id: 1, name: "Rohit", Marks   |  | (3+2)            |  |
| (a)Write the query to add [57, 85] t 'Marks'.  | to the array at the second position of the exist                                     | ing array        |  |
| (b) Write the query to sort the elem   | nents of the existing array 'Marks' in descend                                       | ing order.       |  |
| Q.2. (a) State the difference between M (b) State the difference between M (c) Define capped collection with | SON and BSON   | (1+1+3)          |  |
|  | ass different properties of CAP theorem. roperties of CAP theorem, MongoDB supports. | (3+2) ts and how |  |
|  |  |                  |  |
| Q.4. (a). Describe briefly what are the r  | equirement of replication in MongoDB   | (5)              |  |
| Q.4. (a). Describe briefly what are the r<br>Q.5.(a). Define horizontal scaling.                             | requirement of replication in MongoDB  | (5)<br>(1+4)     |  |