

## **CS3095D DBMS Lab**

**Exercise No: 06 & 07**

**Date of Announcement: 08/11/2020**

**Due Date: 15/11/2020**

**Marks: 15**

### **B Tree & B + Tree**

Consider the Web portal design problem given in exercise #2. The details of sold products are recorded based on their uniqueness. The sold product details are recorded in the order (product id) of 7, 13, 16, 24, 01, 03, 04, 05, 10, 11, 14, 15, 18, 19, 20, 21, 22, 25, 26. Suppose the search field values are inserted in the given order in a B tree of order  $p=4$ .

1. Show how the tree will expand for each insertion.
2. Structure of the final tree.

**Note: Students are requested to take care of the following points:**

1. Save the solution document as single pdf file. File name format:  
RegNumberYourNameExerciseNo.pdf Example: B190585CSJohnE01.pdf
2. Submit the pdf file to Eduserver before the deadline (15.11.2020, 23.59 PM). (No further extension will be entertained.)
3. Late submission may incur a penalty of -0.5 marks.
4. Evaluation will not be conducted for those who did not submit their solution within the stipulated time.
5. Viva (Interactions) will be conducted through WebEx/google meet. (Share your screen and show your execution as per evaluator's instructions, if needed.)
6. Due to unpredictable situations, students who cannot appear for online viva sessions may get a chance to attend the oral viva through mobile phones. Note: Only genuine cases will be entertained, and students will have to get prior permission from faculty.
7. Google meet link/Eduserver & Join meeting link, and evaluators' details will be sent to the students one day earlier.
8. Please take snapshots of all the executions and put them in a word file, and then save it as a pdf file for submission (along with it, you should write the justification on each notation)

\*\*\*\*\* All the best\*\*\*\*\*

### Tentative Plan of Evaluation

Sl.No	Task	Details	Marks
1	Submission	✓ Timely Submission	01
2	Submission of Report(15.11.2020,23.59PM).  Based on the question posted in Eduserver (08.11.2020).	✓ You should explain the Each and every (Insertion & Deletion) steps with proper justification(Write-up). ✓ Upload the pdf file to Eduserver before the deadline (15.11.2020, 23.59 PM)	03
3	Evaluation –I (on 17.11.2020)	✓ The lab team will post the question to you on 17.11.2020 at 2.00 PM, and you can take 45 minutes to upload the solution script in Eduserver (file format: pdf file). ✓ Evaluation will not be conducted for those who don't submit their solutions on time. (late submissions are not allowed to participate in viva. ✓ (B Tree Deletion, B+ Tree Deletion, Some Basic Questions)	04+04
4	Evaluation –II (on 17.11.2020)	✓ Based on the submission, viva will be conducted for students (schedule will be circulated later)	03

If any doubts about the uploaded marks and uploaded exercises, please mail to  
(prabum@nitc.ac.in and [praneshdas@nitc.ac.in](mailto:praneshdas@nitc.ac.in))

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