



K. J. Somaiya College of Engineering, Mumbai-77
(Autonomous College Affiliated to University of Mumbai)

DBMS IA2- Normalisation

SY-EXCP (A and B)

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Each questions is of 05 MARKS

1. Consider relation R with five attributes ABCDE .The dependencies are $A \rightarrow B$
 $BC \rightarrow E$ and $ED \rightarrow A$
 - (a) List all the keys for R
 - (b) Is R in 3NF ?
 - (c) Is R in BCNF ?

2. Suppose you are given relation with four attributes ABCD. The dependencies are
 - 2a) $C \rightarrow D, C \rightarrow A, B \rightarrow C$
 - 2b) $B \rightarrow C, D \rightarrow A$
 - 2c) $ABC \rightarrow D, D \rightarrow A$

Find the candidate keys for each subquestion and identify the best normal form and why