

**JIET GROUP OF INSTITUTIONS**  
**JODHPUR INSTITUTE OF ENGG. & TECH.**  
**II MID-TERM EXAMINATION, 2019-20**  
**II B. TECH. (IV SEMESTER)**  
**BRANCH: COMPUTER SCIENCE AND ENGINEERING**  
**SUBJECT CODE: 4CS4-05 SUBJECT : Database Mang. System**

**Time: 90 minutes**

**Max. Marks: 50**

	<b>Max. Marks</b>	<b>Co Mapping</b>	<b>Difficulty Level</b>
1. What do you mean by schedule in the context of concurrent execution of transaction? Explain its types.	[10]	[4]	[2]
2. Define functional dependency. Explain Armstrong's axioms or rules with example.	[10]	[4]	[1]
3. Find the highest normal form of the following functional dependency for given relation $R = (A, B, C, D, E)$ . $FD = (A \rightarrow BC, CD \rightarrow E, B \rightarrow D, E \rightarrow A)$ AND ALSO FIND CANDIDATE KEY.	[10]	[5]	[2]
4. What do you mean by deadlock? What are various conditions under which deadlock occur?	[10]	[3]	[2]
5. Define the serializability and differentiate view and conflict serializability.	[10]	[4]	[2]