## Calcutta University

## MSC 2nd Year

# Advanced Database Management System (CSMC 201)

### MID SEM

, ,	run wark=20	
<u></u>	Answer any four Question:	4x2 = 8
a	What is normalization?	
56)	Define fully functional dependency with the help of suitable example.	
(sex	Differentiate between extendible and static hashing.	
(d)	Define query optimization.	
(e)	What is conflict?	
2	Answer any Three question:	3x4=12
	A table has fields, F1,F2,F3,F4,F5, with the following functional	
	dependencies:	
	$F1 \rightarrow F3$ , $F2 \rightarrow F4$ , $F1.F2 \rightarrow F5$ in terms of Normalization, this table is in	
	which normal form? Break the table so that it can achieve BCNF.	
كاطر	Perform double hashing to store the data item:	
	First hash function is $h1(k)=k\%$ 7 and second is $h2(k)=(h1(k)+(i*h2(k)))$	
	%n	
	Values are: 27, 43, 692,72	
c)_	Explain cost-based query optimization with example.	
at)	Explain fost-update and dirty read problem with example.	