International Institute Of Professional Studies

Internal 1

M.Tech(5 Years) - VII Semester

Subject : Advanced Database Management System

Time: 1 hr. Max Marks

:20

Note: All questions are compulsory.

S.No		Marks
1.	Given a relational Schema R(A, B, C, D, E) and set of Function	5
	Dependency FD = { $A \rightarrow B, AB \rightarrow C, D \rightarrow ACE$ }. Find the	
	canonical cover?	
2.	Given a relation R(A, B, C, D) and Functional Dependency set	5
	$FD = \{AB \rightarrow CD, B \rightarrow C\}$, determine whether the given R is in	
	2NF? If not convert it into 2 NF.	
3.	Draw an ER Diagram of any System and explain:	6
	a) Weak and Strong entity set	
	b) Specialization and generalization	
	c) keys	
4.	Consider a relation scheme R = (A, B, C, D, E, H) on which the	4
	following functional dependencies hold: {A->B, BC-> D, E->C,	
	D->A}. What are the candidate keys of R?(Explain in detail.)	