## LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034



## M.Sc. DEGREE EXAMINATION - COMPUTER SCIENCE

SECOND SEMESTER - NOVEMBER 2016

CS 2828 - ADVANCED DATA BASE SYSTEMS		
Date: 11-11-2016 Time: 01:00-04:00	Dept. No.	Max.: 100 Marks
Part - A		
<b>Answer All the Questions:</b>		$(10 \times 2 = 20)$
<ul> <li>3. What is self-refe</li> <li>4. Write down the s</li> <li>5. Write down the s</li> <li>6. Write down the s</li> <li>7. What is log base</li> <li>8. What are the pha</li> </ul>	components of an E-R diagram. rential integrity? syntax of altering a table. syntax of having clause in SQL. syntax and usage of null value function in SQL. d recovery? uses of two-phase commit protocol?	
9. What are the data 10. What is OML?	a types used in spatial databases?	
<b>Answer all the Questions:</b>	Part - B	$(5 \times 8 = 40)$
b) Explain different 12 a) Explain relational b) Explain the types 13 a) Explain aggregate b) Explain functional 14 a) Explain the steps i b) Write down ACID 15 a) Explain the mobil	e management system with file management system (OR) t storage schemes in databases. calculus with example. (OR) t of integrity constraints with example. operators in SQL. (OR) dependencies with example. nvolved in query processing. (OR) properties in transaction. Explain each. e computing architecture with block diagram. (OR) rity issues involved in databases.  Part – C	em $(2 \times 20 = 40)$
		· · ·
, •	base management system architecture with a diagram	
b) Explain DDL commands with example.		(10)
17 a) What are active databases? How active data bases are designed?		(10)
b) Explain deadlock in transaction and the prevention schemes.		(10)
18. a) Explain the basic schemes of temporal databases		(10)
b) Explain 1NF,2NF,3NF and BCNF with examples.		(10)