**2008 Alagappa University M.Sc Information Technology OBJECT ORIENTED DBMS Question paper**

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| **Course: M.Sc M.Sc Information Technology** |  | **University/board: Alagappa University** |

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PART A — (10 x 3 = 30 marks)  
Answer ALL questions.  
All questions carry equal marks.  
  
1. Mention any three advantages of ‘Database Management System’.  
2. What is meant by data independence?  
3. Define the terms :  
(a) Entities  
(b) Attributes.  
4. What is the difference between ‘Primary key’ and ‘secondary key’?  
5. Write the necessity to define NULL values.  
6. What is the use of condition box in QBE?  
7. Define functional dependencies.  
8. What is a trigger, and what are its parts?  
9. What is the main idea behind discretionary access control?  
10. What are the main components of an XML document?  
  
PART B — (4 x 10 = 40 marks)  
Answer any FOUR questions.  
All questions carry equal marks.  
  
11. Write a note on transaction management.  
12. Define the concept of aggregation. Give two examples of where this concept is useful.  
13. Explain the nested queries, aggregate operators, group by and having clauses with suitable examples.  
14. Explain briefly about clustering and indexing.  
15. Discuss in detail about the database tuning.  
16. Explain the similarities and differences of OODBMS and ORDBMS.  
  
PART C — (2 x 15 = 30 marks)  
Answer any TWO questions.  
All questions carry equal marks.  
  
17. Draw an E-R diagram for a payroll system. Identify strong and week entities and relationships.  
18. Explain first, second and third normal forms with examples.  
19. Explain in detail about the distributed DBMS architecture and distributed query processing