## B.TECH SEM – VIII (2007 COURSE) (COMPUTER ENGG.) : WINTER - 2017

## SUBJECT: ADVANCED DATA BASE MANAGEMENT SYSTEM

N.B.:  1) Q. No. 1 and Q. No. 5 are COMPULSORY. Out of the remaining attempt ar TWO questions from each section. 2) Figures to the right indicate FULL marks. 3) Answers to both the sections should be written in SEPARATE answer book.  SECTION-I  Q.1 a) Explain various types of attributes used in ER model. b) Explain in brief Nested relations and collections. c) Explain in brief the Geographic Information System.  Q.2 Create ER model, EER model with proper diagrams for Online Airline Reservation System for National Airlines.  Q.3 Create ORDBMS system with its architecture and class subclass structure for Hospital Management System. Discuss storage and Access methods with query optimisation.  Q.4 a) Discuss and Compare Temporal and Active Database. b) Explain steps involved in Query processing with suitable example.  SECTION-II  Q.5 a) Explain and discuss various XML Parsers. b) Explain the different data partitioning techniques in I/O parallelism. c) Explain in detail the concept of Decision Tables.  Q.6 a) Explain with example the XML Document Schema. b) Explain in detail Inter Query and Intra Query Parallelism. c) Explain in detail Inter Query and Intra Query Parallelism. b) Explain the different types of Data Fragmentation used in Distributed Database.  Q.8 a) Explain the Aggregation functions used in Oracle for Data warehousing- b) State the different Data Mining Techniques. Explain any one in detail.	ay: ate:	Thursday 23/11/2017		Name of	W-2017-2665		Time: <b>02.30 PM T</b> Max. Marks: 80	O 05.30 P
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