SV - 213

Seat No.	

Total No. of Pages : 2

B.E. (CSE) (Semester - VII) (Revised) Examination, May - 2019
ADVANCED DATABASE SYSTEMS
Sub. Code : 67543

Day and Date : Saturday, 04 - 05 - 2019 **Total Marks : 100**
Time : 02.30 p.m. to 05.30 p.m.

Instructions :
1) **Attempt any three questions from each section.**
2) **Q4 and Q8 are compulsory.**
3) **Figures to the right indicate full marks.**
4) **Assume suitable data wherever necessary.**

SECTION - I

Q1) a) With the help of a suitable diagram, explain a typical transaction server system accessing data in a shared memory. **[8]**

b) Explain linear scaleup in case of parallel systems. **[8]**

Q2) a) Describe how the two-phase commit protocol operates during normal operations. **[8]**

b) What are persistent objects? Explain any two concepts to make the object persistent. **[8]**

Q3) a) What do you mean by embedded SQL and dynamic SQL? State the advantages and disadvantages of dynamic SQL. **[8]**

b) Explain database software development life cycle with suitable figure. **[8]**

Q4) Write short notes on any three **[6+6+6]**

a) Reflection

b) ODL

c) Intra query parallelism

d) Object Identity and Structure

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SECTION - II

Q5) a) State and briefly explain database security mechanisms against unauthorized access. [8]

b) State the DBA's responsibilities to maintain database security. What actions are created by DBA-privileged commands. [8]

Q6) a) Explain the structure of XML data and XML schema. [8]

b) What do you mean by sensitivity of data? Specify those factors that make data sensitive. [8]

Q7) a) What is business intelligence? State the general steps involved in BI. [8]

b) What is star schema? Explain factor and dimensions as its components. [8]

Q8) Write short notes on any three [6+6+6]

a) OLAP client server architecture

b) Audit trials in database

c) Covert channels

d) Data mining

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