

Total No. of Questions : 6]

SEAT No. :

P60

[Total No. of Pages : 2

APR.-17/B.E./Insem.-70
B.E. (Information Technology)
ADVANCED DATABASE
(2012 Pattern) (Semester - II)

Time : 1 Hour]

[Max. Marks : 30

Instructions to the candidates:

- 1) Figures to the right indicate full marks.*
- 2) All questions are compulsory.*
- 3) Assume suitable data if necessary.*

- Q1)** a) Discuss parallel database architecture with appropriate diagram. [6]
b) Explain in detail Interquery parallelism with example. [4]

OR

- Q2)** a) What do you mean by distributed transactions? Explain it along with its architecture. [6]
b) Explain difference between homogeneous and heterogeneous databases. [4]

- Q3)** a) Explain Object-based database with suitable example. [4]
b) Discuss in detail all structured data types with operations performed on structured and Unstructured data. [6]

OR

- Q4)** a) Explain ORDBMS database design along with concept of OID. [6]
b) Discuss concept of XQuery by using FLWOR-expressions with suitable example. [4]

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- Q5)** a) What do you mean by NoSQL database? Explain Cassandra architecture in detail. [6]
- b) Using CQL and Java API, write an program to manage data table operations (min.2). [4]

OR

- Q6)** a) Explain indexing and Batch statement concept using CQL . [6]
- b) Discuss DynamoDB with suitable example. [4]

