

CLASS: M.Com. C.A.

15A/249

St. JOSEPH'S COLLEGE (AUTONOMOUS) TIRUCHIRAPPALLI – 620 002

SEMESTER EXAMINATIONS – APRIL 2015

TIME: 2 Hrs. 20 Min.

MAXIMUM MARKS: 70

| SEM | SET | PAPER CODE | TITLE OF THE PAPER |
|-----|------|------------|--------------------|
| II | 2014 | 14PCC2107 | DATABASE SYSTEMS |

SECTION – B

Answer all the questions:

5 x 5 = 25

31. a. Write short notes about the levels of data abstraction.

OR

b. Discuss the concept of database languages with example.

32. a. Write short notes about SQL and its parts.

OR

b. Explain about query-by example with example.

33. a. What is the purpose of normalization and explain the concept of first normal form?

OR

b. Describe the concept of dependency preservation with an algorithm.

34. a. Define transaction and discuss about ACID properties with example.

OR

b. Discuss the concept of the two phase locking protocol with example.

35. a. Write short notes about intra query parallelism.

OR

- b. Discuss the various system failure modes in distributed system.

SECTION – C

Answer any THREE questions:

3 x 15 = 45

36. Explain in detail about database system structure with neat diagram.
37. Explain the concept of aggregate function in SQL with suitable examples.
38. Explain in detailed notes about fourth normal form with example.
39. Discuss about time stamp based protocols with suitable example.
40. Describe about how to handling dead lock with example.
