

**M.B.A. (IT) SEM- II (2012 COURSE)(CHOICE BASED CREDIT  
SYSTEM) : SUMMER - 2018  
SUBJECT: DATABASE MANAGEMENT-I**

**Day: Monday**  
**Date: 30/04/2018**

**S-2018-1962**

**Time : 02.00 PM TO 05.00 PM**  
**Max. Marks: 100**

**N.B.**

- 1) Attempt **ANY FOUR** questions from Section-I and attempt **ANY TWO** questions from Section-II
- 2) Answer to both the section should be written in **SEPARATE** answer book.
- 3) Figures to the right indicate **FULL** marks

**SECTION-I**

- Q.1** Draw and explain the Architecture of DBMS. (15)
- Q.2** What are the functional dependencies? Explain with example. (15)
- Q.3** Explain all types of constraints supported by SQL. (15)
- Q.4** a) What is View? Explain advantages of view with example. (08)  
b) Discuss how data can be retrieved from multiple tables by using joins. (07)
- Q.5** Write short note on **ANY THREE** of the following: (15)
- a) SQL Date functions
  - b) Error Handling
  - c) Numeric functions in SQL
  - d) Scheme and instance

**SECTION-II**

- Q.6** Information about a bank is about customers and their account. Customer has a name, address which consists of house number area and city, and more than one phone numbers. Account has number, type and balance. We need to record a customer who has an account. Account can be held individually or jointly. An account cannot exist without a customer name. Create a Normalized database for Bank. (20)
- Q.7** Consider the relation stud (stid, name, year), Book (Bid, Bname), StudCourse (stid, Bid). (20)  
A student may take max 3 books at a time.
- a) Write a statement to create all the tables.
  - b) Write insert statement for all the tables.
  - c) Display the name of student who issued "Let Us C" Book
  - d) Display number of student who has issued more than 2 books.
  - e) Display number of students who has not issued any book.
- Q.8** Write PL/ SQL programs for the following:
- a) To insert a record in the employee table (assume suitable structure of the table) (10)
  - b) Accept the number from user and check whether the number is prime or not. (10)