



**JBG-P1040**

Seat No. \_\_\_\_\_

**M. C. A. (Sem. I) (CBCS) Examination**

**December - 2019**

**P-1040 : Database Concepts & Tools**

Time :  $2\frac{1}{2}$  Hours]

[Total Marks : 70

**Instruction :** Write answers of all the questions in main answer sheet.

- 1 (a) Attempt the following objective questions : 4  
(1) What is super key ?  
(2) Give full form of ER.  
(3) What is DBMS ?  
(4) \_\_\_\_\_ is also known as tuple.
- (b) Attempt any **one** of the following : 2  
(1) What is candidate key ? Explain.  
(2) What is relationship? List out types of relationship.
- (c) Attempt any **one** of the following : 3  
(1) Explain types of attributes.  
(2) Write a note on Data models.
- (d) Attempt any **one** of the following : 5  
(1) Write a note on overall architecture of DBMS.  
(2) Explain entity integrity constraints and referential integrity constraints.
- 2 (a) Attempt the following objective questions : 4  
(1) What is normalization?  
(2) Give Full form of BCNF.  
(3) Give full form of PJNF.  
(4) What is attribute ?
- (b) Attempt any **one** of the following : 2  
(1) What is Domains? Explain.  
(2) Explain canonical cover.
- (c) Attempt any **one** of the following : 3  
(1) Explain SNF in detail.  
(2) Write a note on Closure set of FD.
- (d) Attempt any **one** of the following : 5  
(1) Write a note on Anomalies in database.  
(2) What is normalization? Explain stages of normalization.

- 3 (a) Attempt the following objective questions : 4
- (1) Online backup is also called \_\_\_\_\_.
  - (2) INSERT is which type of SQL command ?
  - (3) Inner join is also known as \_\_\_\_\_.
  - (4) Give full form TPL.
- (b) Attempt any **one** of the following : 2
- (1) Explain Redolog Buffer cache.
  - (2) Explain DBWR and LGWR.
- (c) Attempt any **one** of the following : 3
- (1) Explain import utility in detail.
  - (2) Explain select statement with example.
- (d) Attempt any **one** of the following : 5
- (1) What is view? Explain it.
  - (2) Write a note on Index.
- 4 (a) Attempt the following objective questions : 4
- (1) \_\_\_\_\_ Exception raised when a select statement returns zero rows.
  - (2) Define %NOTFOUND.
  - (3) Exclusive locks are placed on resources whenever \_\_\_\_\_ operations are performed.
  - (4) Define %ROWCOUNT.
- (b) Attempt any **one** of the following : 2
- (1) Explain implicit cursor.
  - (2) Explain for loop.
- (c) Attempt any **one** of the following : 3
- (1) Write a note on cursor for loop.
  - (2) Write advantages of PL/SQL.
- (d) Attempt any **one** of the following : 5
- (1) Write a note on Lock.
  - (2) What is cursor ? Explain explicit cursor in detail.
- 5 (a) Attempt the following objective questions : 4
- (1) A \_\_\_\_\_ can return only **one** value to the calling PL/SQL code block.
  - (2) What is statement trigger ?
  - (3) Use of INOUT keyword.
  - (4) Syntax for REVOKE statement.
- (b) Attempt any **one** of the following : 2
- (1) Explain Create User statement.
  - (2) Explain GRANT statement.
- (c) Attempt any **one** of the following : 3
- (1) Explain role statement with example.
  - (2) What is procedure? Explain it.
- (d) Attempt any **one** of the following : 5
- (1) Write a note on triggers.
  - (2) Write a note on package.