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Seat No.	
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[4968]-6003

B.C.A. (Semester VI) EXAMINATION, 2016

RECENT TRENDS IN IT (603)

(2013 PATTERN)

Time : Three Hours

Maximum Marks : 80

- N.B. :—** (i) All questions are compulsory.
(ii) All questions carry equal marks.
(iii) Assume suitable data, if necessary.

1. Attempt any *eight* of the following : [8×2=16]

- (a) Define Software Prototyping.
- (b) What is Varying Arrays ?
- (c) Define the term 'Data Warehouse'.
- (d) Explain the term 'One-Time-Pads'.
- (e) What are the benefits of Data Cleansing ?
- (f) What are the needs of "Green Computing" ?
- (g) What are the types of Indicators ?
- (h) Explain the term Ciphertext.
- (i) What do you mean by Data Integration ?
- (j) What is Data Replication ?

2. Attempt any *four* of the following : [4×4=16]

- (a) State naming convention of objects.

P.T.O.

- (b) What are the different software prototyping methods and tools ?
- (c) Explain the term Public Key Algorithm, RSA.
- (d) Describe centralized and client server based architecture of Database System.
- (e) Describe the role of Requirement Analysis in Software Process.

3. Attempt any *four* of the following : [4×4=16]

- (a) Give the advantages and disadvantages of Mobile Computing.
- (b) Define OLAP Server Architecture in Data Warehouse.
- (c) Explain Symmetric Key Signature and Public Key Signature.
- (d) Define 'Distributed Database' and reasons for building Distributed Database.
- (e) Explain different types of Ciphertext in cryptography.

4. Attempt any *four* of the following : [4×4=16]

- (a) What is Data Mining ? Describe its architecture.
- (b) What is Software Quality Assurance (SQA) ? State advantages of SQA.
- (c) What is "Green Computing" ? Give any example that implements Green Computing.
- (d) What is Message Digest in cryptography ?
- (e) What is the difference between Standalone and Distributed Database ?

5. Attempt any *four* of the following : [4×4=16]

(a) Explain the term :

(i) Homogeneous Distributed Databases

(ii) Heterogeneous Distributed Databases.

(b) Explain star schema for data warehouse.

(c) Describe client server architecture in Distributed Database.

(d) Give the advantages of cloud computing.

(e) Give the factors that affect software quality.