

Total No. of Questions—5]

[Total No. of Printed Pages—3

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.

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- (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.