

**QP Code : 12456**

(3 Hours)

[ Total Marks : 100

- N.B. :** (1) Answer any **five** questions.  
(2) All questions carry **equal** marks.

1. Discuss in detail how information communication technology has influenced the user services in libraries. 20
2. What is DBMS? Explain the different components of DBMS. 20
3. Write in detail about the different systems that are used for data communication in a network. 20
4. Explain the importance of e-learning in the context of modern libraries. 20
5. What are search engines? Explain their significance in information retrieval and discuss the features of any **one** search engine. 20
6. Write an essay on data security measures used over networks. 20
7. Write short notes on any **four** of the following: 20
  - (a) RSS feed
  - (b) Image formats
  - (c) XML
  - (d) Open source softwares
  - (e) Library blogs
  - (f) Wikis

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**BB-Con.1390-17.**