



**Mahila Vikas Sanstha's**

**INDRAPRASTHA NEW ARTS  
COMMERCE & SCIENCE  
COLLEGE,** AT POST MALWADI, DIST. WARDHA (M.S.)

**Accredited 'B' by NAAC**

Approved by government  
of Maharashtra

Affiliated to Rashtrasant Tukadoji  
Maharaj Nagpur University, Nagpur

Recognised by U.G.C New Delhi  
under section 2 (f) & 12 (b) of  
UGC act 1956

**Department of Computer Science**

**Class: M.Sc IV Sem**

**Subject : Advances in IT**

**Question Bank**

### **Unit I**

1. What do you mean by software ? Explain system software and application software.
2. Explain Data Base Management System in detail.
3. What do you mean by Mail Merge ? Explain spreadsheet in detail.
4. Explain characteristics of good programming language.
5. Explain advantages and disadvantages of Machine Language.
6. Explain different types of programming languages with example.
7. Explain Mail Merge in detail.
8. Write notes on the following :
  - (i) Assembly language
  - (ii) High level language.
9. Explain different types of functions in MS-Excel.
10. Give the objectives of Database Management System.

### **Unit II**

1. Explain various forms of data communication.
2. Write a note on data transmission media :
  - (i) Twisted pair
  - (ii) Co-axial.
3. Explain different types of network.
4. What is Topology ? Explain different types of topology.
5. Explain advantage and limitation of Star Topology.
6. Write notes on the following :
7. Analog communication
8. Digital communication.
9. Explain different types of Network topology with advantages.
10. What is transmission media ? Explain Twisted pair and Fibre optic cable with example.
11. Explain modems and multiplexing in detail.
12. Explain Satellite communication.



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## **Unit III**

1. Explain brief history and development of Internet.
2. What is Internet ? Explain Intranet and Extranet in detail.
3. What do you mean by virus ? Explain different types of virus.
4. Write short notes on :
  - (i) Firewall
  - (ii) Anti-spy.
5. Explain Open Source Software.
6. Explain different features of E-commerce in detail.
7. Explain open source software in detail.
8. Write notes on the following :
  - (i) URL
  - (ii) Shell Account.
9. What is virus ? Explain type of viruses.
10. Explain various Internet Applications.

## **Unit IV**

1. Write notes on :
  - (i) Mobile Internet
  - (ii) GPS.
2. Explain different types of E-Commerce and their utilities.
3. Explain Mobile Computing and Cloud Technology.
4. Write notes on :
  - (i) Neural Network
  - (ii) Grid Computing.
5. Explain Data Mining.
6. Write notes on the following :
  - (i) Bluetooth
  - (ii) Wireless Application Protocol.
7. What is mobile computing ? Give advantages of Bioinformatics.
8. Explain Neural Network in detail.
9. Discuss Artificial Intelligence and Expert System in detail.
10. Define the terms Distributed Computing and Data Mining.