

2022

**COMPUTER FUNDAMENTALS & OPERATION**

*Full Marks: 100*

Time: Three hours

*The figures in the margin indicate full marks for the questions.*

*Answer any five questions.*

1. a) Answer the following : 6x2=12
  - i) What is meant by generation in computer terminology?
  - ii) What is data and information?
  - iii) List any three secondary storage device.
  - iv) Differentiate between bit, byte and nibble.
  - v) What is Read Only Memory?
  - vi) What is cache memory?
  
- b) Write a brief history of computer. 8
  
2. a) Write the full forms of the following : 5  
EDVAC, UNIVAC, BASIC, FORTRON and IBM.
- b) What is a software? Explain various types of computer software. 2+6
- c) What is meant by memory hierarchy? Explain about it with diagram. 2+5
  
3. a) Specify and explain the electronic components used for different computer generations. 10
- b) Write the advantages of high level language over machine level language. 5
- c) Differentiate between system software and application software. 5
  
4. a) Explain about the various kinds of computer network in brief. 6

- b) Explain about network topology and its various types with appropriate diagram. 8
- c) Explain the different transmission modes of data communications. 6
5. a) What is ASCII and BCD code 3+3
- b) What are the positional number systems and what is their base? 4+4
- c) Convert (28546) base 10 to its corresponding binary and octal. 3+3
6. a) What is internet protocol? Explain about HTTP. 2+3
- b) Explain any five types of network devices in brief. 5x3
7. Write short notes on the following 5x4=20
- i) Benefits of email
  - ii) Mark-up language
  - iii) E-commerce & its types
  - iv) Internet Service Provider
  - v) Net surfing & Browsing