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Programme UG/1st/UMCD103

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
- Benefits of email
 - Mark-up language
 - E-commerce & its types
 - Internet Service Provider
 - Net surfing & Browsing

