

2023

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) Compare the technology used in various generations of computers. 5
b) Explain about computer memory and its types in brief. 4+6
c) Explain the use of any five input devices of a computer. 5
2. a) Define bit, byte and nibble. 2+2+2
b) What is machine language? Explain the advantages and disadvantages of machine language. 4+4
c) Convert the following number system to its corresponding base - 2x3
i) (1100101101110) to the base 2 into decimal.
ii) (2262) to the base 10 into binary.
3. a) What is program development cycle? 4
b) Explain about algorithm and flowchart? 6
c) Explain System and Application software. Enlist names of system and application software. 6+4
4. a) Define the term internet. What protocol suit does it follow? 2+4
b) Explain the TCP/IP model layers in brief. 6
c) Write a brief note on the origin of internet. 8
5. a) Write short notes on the following - 4x2=8
i) URL
ii) ISP
iii) Dynamic HTML
iv) Data communication
b) Define E commerce. What are the advantages of e commerce? 2+4
c) Explain B2B, B2C and C2C types of e commerce with example for each. 6
6. Write short notes on the following: 4x5=20
a) Evolution of world wide web
b) Guided and unguided transmission medium
d) Basic structure of HTML document.
e) Bus, ring and mesh topology.