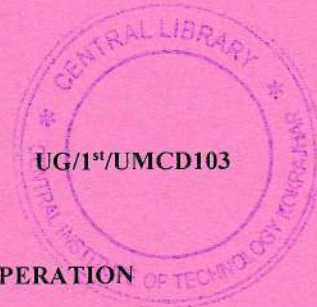


Total number of printed pages:2



2021

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) What is data processing? What is the difference between data and information? 2+4
- b) Explain about the input and output unit of a computer. 2+2
- c) Explain the different types of memory in brief. Differentiate between dynamic RAM & static RAM. 6+4
2. a) Discuss the various classification of computers in brief. 6
- b) What is the difference between Hardware and Software? 4
- c) What is an Operating system? Differentiate between System and Application software. 4+6
3. a) Write the algorithm and draw the flowchart for the following 3x4=12
 - i) Perimeter of a rectangle
 - ii) Area of a circle
 - iii) Sum of two numbers
- b) Explain the generations of programming language of computers in detail. 8
4. a) What is an algorithm? State its properties in brief. 2+4
- b) What are the different symbols used in a Flowchart? 6

- c) What are the steps in program development? Explain each. 8
5. a) What is Number system? Convert the following into its corresponding bases 2+2+2+
2 =8
- i) $(1011001101)_2$ to decimal
- ii) $(634)_8$ to binary
- iii) $(1234)_{10}$ to binary
- b) Explain about BCD and ASCII Code? 3+2=5
- c) Explain about E-commerce and its various types. 7
6. Write short notes on any two of the following 4x5=20
- a) HTTP & FTP
- b) Internet and WWW
- c) Email and its benefits
- d) Search engine and Browser
7. a) Elaborate the advantages and disadvantages of the bus topology? What is fiber optic cable and how does it work? 4+3+5=
12
Explain the different modes of communications.
- b) Explain the different network topologies with proper diagram? 8

