

2022

FUNDAMENTALS OF COMPUTER APPLICATION

Full Marks: 100

Time: Three hours

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

Answer any five questions.

1. Answer the following : 10x2=20
- i) How does a computer process data?
 - ii) What is data?
 - iii) List any three input device.
 - iv) What is a program?
 - v) What is the function of output devices?
 - vi) What is ALU?
 - vii) What is BIOS?
 - viii) What is RAM?
 - ix) What is internet?
 - x) What is World Wide Web?
2. a) Explain about the characteristics of 1st and 2nd generations of computer. 4+4
- b) What is computer memory? Differentiate between volatile and non-volatile memory. 2+4
- c) Explain about static RAM and dynamic RAM. 3+3
3. a) Explain the functional components of a computer with block diagram. 6
- b) What is machine language? Explain the advantages and disadvantages of machine language. 2+6
- c) Explain the different types of Computer in detail. 6

4. a) What are the positional number systems and what are their bases? 4+4
b) Differentiate between system software & application software. 6
c) What is internet protocol? Explain about HTTP & TCP. 2+4
5. a) What is computer network? List the different types of network based on geographical area. 2+4
b) What do you mean by data communication? Explain its five basic elements. 3+5
c) Explain about simplex, half duplex and duplex transmission modes with appropriate diagram. 6
6. a) Write a brief history on the evolution of internet. 6
b) What is e-commerce? Explain about e-commerce and its benefits. 4+4
c) Explain about the following network devices - switch, router and hub. 2+2+2
7. Write short notes on any two of the following 5x4=20
i) URL & IP address
ii) Internet Service Provider
iii) HTML & Dynamic HTML
iv) Net surfing & Browsing
v) Website & Home page