

**2022**

*Time : 3 hours*

*Full Marks : 70*

*Candidates are required to give their answers in their own words as far as practicable.*

*The figures in the margin indicate full marks.*

*Answer from both the Section as directed.*

**Section – A**

Answer any **four** questions of the following :

10×4 = 40

1. Why Computer is known as strange tools of modu era ? Write applications of computer in different fields.

2. What are basic logic gates ? Why NAND and NOR logic gate is known as Universal gate.

3. Design block diagram of Computer system and explain the fuction of different unit of Computer System in brief.

4. What is hard copy device ? Explain different types of printers used as hard copy device.

5. What is Operating System ? Differentiate between Multitasking and Multiprogramming Operating System.

6. What is Flowchart ? Draw a flowchart to print the sum of 1st 20 natural numbers.

7. What is Computer Network ? Explain different transmission media used in Computer Network.

8. What is Internet ? Explain how E-mail works ?

### Section - B

Answer all questions of the following :  $3 \times 10 = 30$

9. Convert the following :

(a)  $(21.625)_{10} - ( )_2$

(b)  $(1010111)_2 - ( )_8$

(c)  $(ABC5)_{16} - ( )_2$

10. Differentiate between RAM and ROM.

11. What is Software ? Differentiate between System Software and Application Software.

12. What is Algorithm ? Explain characteristics of a good algorithm.

13. How H/W and S/W are two sides of a coin ?

14. What is Network Topology ?

15. What is Search Engine ? Give an example of Search Engine used frequently.

16. Differentiate between LAN and WAN ?

17. What is Virus ? Write name of any two viruses.

18. Define World Wide Web (WWW).

