Bachelor of Science (B.Sc.I.T.) Semester-I (C.B.S.) Examination FUNDAMENTALS OF INFORMATION TECHNOLOGY

Paper—I

Time: Three Hours] [Maximum Marks: 50 **N.B.**:— (1) **ALL** questions are compulsory and carry equal marks. (2) Draw neat and labelled diagram wherever necessary. **EITHER** (a) Explain the basic components and functions of a digital computer with block diagram. 5 (b) What do you mean by translator? Explain different types of translators. 5 OR (c) Write a short note on Number System. 5 (d) Which number system is basically used in computer system? Do as directed. 5 (i) $(265)_{10} = (?)_{8}$ (ii) $(AD1)_{16} = (?)_{10}$ **EITHER** 2. (a) How is cache memory different from RAM? Explain the different types of RAMs. 5 5 (b) Differentiate between: (i) Zip disk (ii) Pen drive OR (c) What is DVD? Explain its working. 5 (d) What is ROM? Explain different types of ROMs. 5 **EITHER** (a) Explain the working of flat bed scanner. 5 (b) Differentiate between MICR and OMR. 5 OR (c) What is the use of light pen? Explain the working of a light pen. 5 (d) Give the classification of printers. Explain dot matrix printer in detail. 5 1 NWN-8834 (Contd.)

EITHER

4.	(a)	What do you mean by topology ? Explain tree and circular topologies.	5
	(b)	Explain LAN and WAN in detail.	5
	OR		
	(c)	Write short notes on:	5
		(i) Repeater	
		(ii) Gateway	
	(d)	Explain with an example of peer-to-peer technology and give its architecture.	5
5.	Attempt All:		
	(a)	What is instruction format? Give two examples.	21/2
	(b)	What is high level language ? Give names of two HLL.	21/2
	(c)	Write a short note on MAN.	21/2
	(d)	What do you mean by router?	21/2