Bachelor of Science (B.Sc.) (Semester—I) Examination COMPUTER SCIENCE (FUNDAMENTALS OF INFORMATION TECHNOLOGY) Optional Paper—2

Tim	ne: Three Hours] [Maximum M	arks : 50
N.E	3. :—(1) ALL questions are compulsory and carry equal marks.	
	(2) Draw neat and labelled diagrams wherever necessary.	
	EITHER	
1.	(a) What is instruction format? Explain fetch and execution cycle.	5
	(b) Do as directed:	
	(i) $(1101.1101)_2 = (?)_{10}$	
	(ii) $(1762.68)_{10} = (?)_{16}$	5
	OR	
	(c) Draw the block diagram of computer and explain the functions of each unit.	5
	(d) Explain:	
	(i) Source Program	
	(ii) Object Program.	5
_	EITHER	
2.	(a) Explain:	
	(i) ROM	
	(ii) PROM	
	(iii) EPROM	_
	(iv) EEPROM.	5
	(b) Explain structure of hard disk with factors that affect the access time of data. OR	5
	(c) List and explain types of optical disks.	5
	(d) Write short notes on:	
	(i) Static RAM	
	(ii) Dynamic RAM.	5
	EITHER	
3.	(a) List and explain various group of keys of keyboard.	5
	(b) Give the classification of Printers. Explain Inkjet Printer.	5
	OR	
	(c) List various input devices. Explain the "Voice Input".	5
	(d) What is plotter? List different types of plotters and explain any one.	5
	EITHER	_
4.	(a) Explain Routers and Brouters in Network.	5
	(b) Explain mesh topology in detail.	5
	OR	~
	(c) Explain Wi-Fi network.	5
	(d) Explain any two network protocols. (a) List advantages and disadvantages of Interpreter.	5
5.	(a) List advantages and disadvantages of Interpreter. (b) Write short note on Cache Memory.	$2\frac{1}{2}$ $2\frac{1}{2}$
	(b) Write short note on Cache Memory.(c) Explain Touch Screen.	$\frac{272}{21/2}$
	(c) Explain Touch Screen.(d) Explain the use of modem in communication.	$\frac{272}{2\frac{1}{2}}$
	(a) Explain the use of modern in communication.	∠72