SECTION A: MULTIPLE CHOICE QUESTIONS (40 marks)

Answer **all** questions. Choose the **best** answer. Each question carries 2 marks. Write your answers in the brackets provided.

(SAMPI	LE QI	JESTI	IONS)
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1.	Mou	Mouse is a/an				
	(a) (b) (c) (d)	input device network device output device storage device	()		
2.	How	many bytes are there in 111100110001110100111011 (in binary)?				
	(a) (b) (c) (d)	1 2 3 4	()		
3.	The	decimal number -16 stored in 8-bit 2's complement is:				
	(a) (b) (c) (d)	00010000 11110000 111111000 11111100	()		
4.	A/an such	is a networked collection of LANs tied together by as routers.	devic	es		
	(a) (b) (c) (d)	LAN MAN WAN internetwork	()		
5.	Whic	ch of the following is NOT a task of a NIC and its driver?				
	(a) (b) (c) (d)	Converts frame into bit signals suitable for the medium and transmits them. Provides a connection from computer to medium. Receives bit signals and assembles them into frames. Receives segments from transport protocol.	()		
	(4)	received deginerite from transport protection.	`	,		

SECTION B: STRUCTURED QUESTIONS (60 marks)

Answer all questions in the spaces provided.

(SAMPLE QUESTIONS)

- 1. List the three types of computer bus and briefly describe them.
- 2. (a) Perform the following addition and subtraction using 2's-complement.

- (b) Convert the following decimal to binary:
 - (i) 123
 - (ii) 34
 - (iii) 55
- (c) Convert the following hexadecimal to decimal:
 - (i) 31
 - (ii) 89
 - (iii) 7A

- 3. (a) Briefly describe the following:
 - (i) Intranet
 - (ii) Extranet
 - (b) Name the address found in the packet header.
- 4. (a) What is network bandwidth?
 - (b) When does a Network Interface Card (NIC) permit inbound communications?