

IMSc ITDM & VI (NEP) Sem.-1 Examination

DSC-M-DMVI-113T

Computer Organization & Architecture

Time : 1-00 Hour]

February-2025

[Max. Marks : 25

Instructions:	
1. Attempt all questions.	
2. Make suitable assumptions wherever necessary.	
3. Figures to the right indicate full marks.	

			Marks
Q.1	(a)	Explain the difference between System software and Application Software.	5
	(b)	Explain the Auxiliary Carry flag and Carry flag register in detail with examples.	5
OR			
Q.1	(a)	Explain the difference between Computer Organization and Computer Architecture in detail.	5
	(b)	Explain Register direct and Indirect Addressing Modes in detail.	5
Q.2	(a)	Explain the Special Purpose Registers in detail.	5
	(b)	Explain the following instruction. (1) SBB r (2) MOV r1, r2	5
OR			
Q.2	(a)	Explain the following instruction. (1) MVI M, data. (2) DCX rp	5
	(b)	Explain unconditional and conditional JUMP instruction.	5
Q.3	(a)	(1) Convert Hexa-Decimal to Octal: $1FOC_{16} = (\dots\dots\dots)_8$ (2) Convert Binary to Octal: $(1011010.111)_2 = (\dots\dots\dots)_8$	5