

## BHARATIYA VIDYA BHAVAN'S SARDAR PATEL INSTITUTE OF TECHNOLOGY

MUNSHI NAGAR, ANDHERI (W), MUMBAI 400058

## **Electronics Engineering Department**

Subject: EL43: Computer Organization and Architecture Sem IV Class: S.E ETRX **ESE** Reexam Staff Name: Manish M. Parmar July 2019 Marks: - 100 Q.1 (a) Answer:- (1) Diagram of ARM core.....[4 marks] (2) Features and block justification......[6 marks] Q.1 (b) Answer:- (1) Minimum five points of difference.....[10 marks] Q.2 (a) Answer:- (1) Draw the flow chart.....[2 marks] (2)... Example.....[8 marks] OR Answer:- (1) Draw the flow chart.....[2 marks] (2)... Example.....[8 marks] Q.2 (b) Answer:- (1) Instruction interpretation......[5 marks] (2) Instruction sequencing.....[5marks] Q.3 (a) Answer:- (1) Define and give the concept of control unit functions (2) State two techniques of design of the control unit. (3) State various techniques of Microprogrammed control unit design.....[3 marks] (4) Design one of the technique with diagram.....[7 marks] OR Answer:- (1) Define and give the concept of control unit functions (2) State two techniques of design of the control unit. (3) State various techniques of Hardwired control unit design.....[3 marks]

(4) Design one of the technique with diagram.....[7 marks]

Answer:-	(1) RISC and CISC definition
Q.4 (a)	
Answer:-	(1) LRU replacement policy
	OR
Answer:-	(1) Segmentation concept
Q.4 (b)	
	(1) Necessity of cache memory
Q.5 (a)	
(	[1) Define HazardInstruction Hazard
Q.5 (b)	
Answer:-	(1) Interrupt driven I/O