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SARDAR PATEL UNIVERSITY VALLABH VIDYANAGAR T.Y.B.Sc. Semester-VI ELECTRONICS (US06CELE22)





Digital Systems
Tuesday, 05/04/2022

1 In V/T type A/D converter is constant. 2 IC ADC 0801 is a pin IC.	1. Successive approximation converter is the converter. (A) Slowest (C) Fastest (B) Medium speed (D) None of these 2. Address multiplexing is used for in no of pins. (A) Increasing (C) Decreasing (B) Multiplying. (D) None of these 3 is D/A converter (A) V/F type (C) V/T type (B) R/2R ladder type. (D) None of these 4 is A/D converter. (A) V/F type (C) R/2R ladder type. (B) Weighted resistor type. (D) None of these 5 Fusible links are present in (A) MROMs (B) Capacitor (D) None of these 6	TIME	-3:00 PM to 5:00 PM	IVIA	KKS-/U
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044	V 1.414	7	in the logic gate to pr	9.5	P.T.O.

B 1 2	State weather following statements are true or false Dynamic RAM are fabricated using MOS technology Binary-weighted converter is a D/A converter.	(04)
3 4	Flash type A/D converter is fastest converter. The RAMs constructed using ECL technology has high speed.	
Q-3 1. 2. 3. 4. 5. 6. 7 8 9 10 11 12	Answer the following question in short. (Attempt any 10) List different types of static RAMs. List different types of ROMs. List different types of A/D converter. List different types of D/A converter. Compare different types of A/D converters. List different types of Programmable logic devices. List different types of magnetic memory devices. Define PLD device. Draw the diagram of single transistor dynamic memory cell. Define FPLA. Define A/D converter. In three bit flash type ADC, how many resistors and comparators are used?	P. Science Constitution of the Property of the
Q.4. 1 2 3	Answer the following (Attempt any four). Give an account of PROMS Give an account of MROM Draw a neat diagram of 4-bit R-2R ladder type D/A convertor, explain its analysis for any two different input 4 bit condition Give an account of Tracking type A/D converter.	[32]. 8 8 8
5	Draw a neat pin diagram of IC ADC 0801, Explain importance of each pin in detail.	8
6	Draw the PAL basic structure, explain in brief & program it for any function.	8
7 8	Give an account of magnetic memory. Give an account of V/F type A/D converter.	8 8