

AD-3284

Third Year B. Sc. (Sem. VI) Examination March/April - 2015 **Electronics Paper - VIII**

/T 1.

	(Microcontroller & Embedaea Systems)	
Time:	2 Hours] [Total Marks	: 50
Instruct	tions:	
(1)		
Fillup str Name of THIR Name of	વેલ → નિશાનીવાળી વિગતો ઉત્તરવહી પર અવશ્ય લખવી. trictly the details of → signs on your answer book. f the Examination : RD YEAR B. SC. (SEM. VI) f the Subject : CTRONICS PAPER - VIII	
ELEC	STRONICS PAPER - VIII	
-Subject 0	Code No.: 3 2 8 4 Section No. (1, 2,): Nil	
(2) Fig	gures to the right indicate full marks.	
(3) Ass	sume data wherever necessary.	
(4) Use	e suitable examples.	
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1 Wr	rite very short answers :	8
(1)	If the internal memory of 8051 is to be used what should be the logical status of the 8051 EA pin.	
(2)	What happens when upload switch is pressed in Arduino sketch.	
(3)	What input parameters are given to pinMode function of Andrino?	

- of Arduino?
- What will happen when the program code (4) "for(i = 0; i = 100; i++);" is executed in keil 8051 C program.
- 2 (A) Explain the meaning of interfacing. How is an LED 8 interfaced with the 8051 microcontroller?
 - (B) An LED is connected on the pin P1.3 of the 8051 6 port write a C program to blink the LED.

OR

2	(A)	Explain the arithmetic and logic operators supported	9
		by Keil C. What data types are supported by 8051 C?	
	(B)	Write a program to toggle the Port I of 8051	5
		microcontroller 100 times.	
3	(A)	What is a sketch? What is the use of setup () and	9
		loop () functions of Arduino sketch?	
	(B)	Write a program to blink the LED on Arduino board.	5
		Explain each line in the program.	
		\mathbf{OR}	
3	(A)	Discuss the programming of 8051 timers in Keil C	9
		using suitable examples.	
	(B)	What is a DAC? How is it interfaced with 8051?	5
4	Wri	te Short Notes :	14
	(1)	Comparison of C and assembly language	
	(2)	Interfacing a Relay	
	(3)	Arduino analog input function	
	(4)	Pin description of 8051	

AD-3284] 2 [100]