RiFa	rstRa	nker.com	NEC-409(A)	
(Follo	wing Paper	s choice Mywrid fath No. 60 be f Answer Books)	illed in youwww.Firs	stF om
Paper ID :	131410	Roll No.		
B.TECH.				
Theory Examination (Semester-IV) 2015-16				
ANALOG & DIGITAL ELECTRONICS				
Time: 3 Hours		A	Max. Marks: 100	
Section-A				
		ts. All parts carry equ part in short.	nal marks. Write (2×10=20)	
		the different materia	ils used for the	
	What is the	e drawback in S-R flip- ted?	flop? How it can	
(c)	What are th	ne various applications o	f the Multiplexer?	
<b>\</b> ->		ne differences between C ogic circuits?	Combinational and	
306/ <b>330</b> /19	5/4875	(1)	P.T.O.	
E/I		Wher c		

www.FirstRanker.com

Explain the working of the universal shift register. Find the characteristic equations of all flip-flops with the oscillation is to vary between 750 kHz and 2050 kHz. help of K-map. Section-C

B

**©** 

ше тапве от шиненаме уапнев, и ще пефисису от

What is the principle of sinusoidal oscillator?

Discuss the current-voltage and capacitance-voltage characteristics and applications of the following: (15×2=30)

ತ

Tunnel diode

Varactor diode

www.FirstRanker.com

rstRanker.com Firstranker's choice aw the low frequency First Raighel model of a transitive. First Raighel model of a transitive. in CB and CE configurations and explain significance of r.com each model.

- Q5. (a) What is the problem associated with the JK flip flop? How it can be overcome? Explain with necessary diagrams.
  - (b) An 8-bit successive approximation ADC has a resolution of 20mV. What will be its digital output for an analog input of 2.17V?

(4) 306/330/195/4875

www.FirstRanker.com