## V.P. & R.P.T.P SCIENCE COLLEGE US05CELE-01

First Internal Test

Date: 1/10/19 11:00 a.m. to 12:15 p.m. Total Marks 25

Q1: Multiple choice	questions:	5 marks
(1) Which si	gnal is sampled from the output circuit in the Transconduc	tance amplifier?
(i)	Voltage	
(ii)	Current	
(iii)	resistance	
(iv)	Conductance	
(2) Which oscillator is suited to the range of frequency from few kilo hertz to few megahertz		
(i)	Phase shift oscillator	
(ii)	Crystal oscillator	n. P. Scien
(iii)	Wein Bridge oscillator	3.
(iv)	Hartley Oscillator	OF OF
(3) Complementary symmetry amplifier uses		
(i)	two npn transistor	+ /+//
(ii)	two pnp transistor	V. Nagat
(iii)	one npn one pnp transistor	
(iv)	None of the above	
(4) In switching regulator the power transistor is used as		
(i)	high frequency ON/OFF switch	
(ii)	Low frequency ON/OFF switch	
(iii)	medium frequency ON/OFF switch	
(iv)	zero frequency ON/OFF switch	,
(5) 78XX is a regulator IC		
(i)	positive voltage	
(ii)	negative voltage	
(iii)	neutral voltage	
(iv)	None of above	
Q2: List the genera	Il characteristic of negative feedback and explain any two in detail.  OR	5 marks
Q2: Classify amplif	iers. Explain with appropriate circuit diagram any of two amplifiers.	5 marks
Q3: Draw the circu	it diagram of Wein bridge oscillator and explain in detail?  OR	5 marks
Q3 : Draw circuit di	agram of crystal oscillator and explain it in detail.	5 marks
Q4 : For transforme	er coupled audio amplifier obtain expression for any one of following.	5 marks
	aximum power output	
	npedance matching	
	OR	
Q4: Describe in detail Class A Pushpull amplifier.		5 marks
		5 marks
Q5 : Draw block dia	gram of Switching regulator IC and state its applications.	5 marks
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