extra

V.P. & R.P.T.P SCIENCE COLLEGE INTERANAL EXAM

S.Y.B.Sc.(SEM-III) INSRUMENTATION (VOC.)

DATE	:-03/10/2019	TIME: 3:00 pm to 4:15 pm	MARKS-25
2-1	Choose correct answer		[05]
1.	When the two terminals are to be at same potential hence two input terminal		
	are said to be		
	(A) virtually grounded	(C) virtually shorted	
	(B) actually grounded	(D) None of above	R.P. Scienc
2.	gives the triangular output when input is square wave.		11-ST
	(A) Adding integrator	(C) Differentiator	(LIBRARY
	(B) Comparator	(D) integrator	1/3/1
	multivibrator is also called free running oscillator.		A Watarat
	(A) Astable	(C) Critical	N. 1093
	(B) Monostable	(D) None of above	
4.	Active filter use components basically for filtration.		
	(A) copper loss	(C) iron core	
	(B) ferrite loss	(D) None of above	
	In band pass filter		
	(A) low and high	(C) intermediate	
	(B) high	(D) low	
2-2	Explain the block diagram of op-amp.		[05]
		OR	
2-2	Derive the expression for inverting amplifier with feedback.		[05]
2-3	Draw the circuit of differential op-amp and derive an equation		[05]
	$V_{out} = -R_f/R_1(V_X - V_v).$		
		OR	
2-3	Explain basic comparator and draw the waveforms using op-amp.		[05]
2-4	Draw the circuit diagram	of pulse-width modulation(PWM) and	[05]
	Explain it with necessary		[00]
	Explain it with necessary	OR	
-4	Explain the Monostable mu		[05]
	Fueleis dete southities		[OF]
λ -2	Explain data acquisition circ	uit using instrumentation operational amplifier. OR	[05]
2-5	Give an account of active lo	Give an account of active low pass first order butter worth filter.	
			[05]