

XII Std. Test-1: Instruments

Max. Marks: 24

Ques 1: Fill in the blanks: $(1+1+1+1+1=5)$			
1) A is used in time base generator circuit. (transistor, UJT, MOSFET)			
2) The blanking circuit is used in CRO to avoid on the screen. (light, darkness, retrace)			
B) In FG, the is used to convert square wave into triangular wave. (amplifier, integrator, converter)			
The gain of buffer circuit used in DMM is (unity, infinite, zero)			
5) The is used as protection from high input voltage, in CRO & DMM. (amplifier, attenuator, trigger circuit			
Ques 2: Draw the circuit of time base generator circuit used in CRO and explain its working with its equations. (3)			
Ques 3: Explain the working of CRO using neat block diagram. Explain function of each block in it. (1+3=4)			
Ques 4: Draw the schematic diagram of CRT and explain its working. (1+3=4)			
Ques 5: Explain electrostatic and magnetic deflection systems used in CRO and TV. Draw neat diagrams. (2+2=4)			

Ques 6: How DMM measures resistance and AC voltage? Explain both in brief. (2+2=4)



XII Std. Test-1: Instruments

Max. Marks: 24

Ques 1: Fill in the blanks: (1+1+1+1=5)

Ques 1.1 m m are stanks. (1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1			
1)	A is used in time base generator circuit. (transistor, UJT, MOSFET)		
2)	The blanking circuit is used in CRO to avoid on the screen. (light, darkness, retrace)		
3)	In FG, the is used to convert square wave into triangular wave. (amplifier, integrator, converter)		
4)	The gain of buffer circuit used in DMM is (unity, infinite, zero)		
5)	The is used as protection from high input voltage, in CRO & DMM. (amplifier, attenuator, trigger circuit)		
Ques 2: Draw the circuit of time base generator circuit used in CRO and explain its working with its equations. (3)			
Ques 3: Explain the working of CRO using neat block diagram. Explain function of each block in it. (1+3=4)			
Qu	es 4: Draw the schematic diagram of CRT and explain its working. (1+3=4)		
Qu	es 5: Explain electrostatic and magnetic deflection systems used in CRO and TV. Draw neat diagrams. (2+2=4)		
Qu	es 6: How DMM measures resistance and AC voltage? Explain both in brief. (2+2=4)		



XII Std. Test-1: Instruments

Max. Marks: 24

Ques 1: Fill in the blanks: (1+1+1+1=5)

1)	A is used in time base generator circuit. (transistor, UJT, MOSFET)		
2)	The blanking circuit is used in CRO to avoid on the screen. (light, darkness, retrace)		
3)	In FG, the is used to convert square wave into triangular wave. (amplifier, integrator, converter)		
4)	The gain of buffer circuit used in DMM is (unity, infinite, zero)		
5)	The is used as protection from high input voltage, in CRO & DMM. (amplifier, attenuator, trigger circuit)		
Ques 2: Draw the circuit of time base generator circuit used in CRO and explain its working with its equations. (3)			
Ques 3: Explain the working of CRO using neat block diagram. Explain function of each block in it. (1+3=4)			
Ques 4: Draw the schematic diagram of CRT and explain its working. (1+3=4)			
Qu	Ques 5: Explain electrostatic and magnetic deflection systems used in CRO and TV. Draw neat diagrams. (2+2=4)		

Ques 6: How DMM measures resistance and AC voltage? Explain both in brief. (2+2=4)