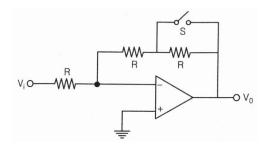
SET B- MCQ- CT1 – UNIT 1

1. Let the magnitude of the gain in the inverting op-amp circuit shown be X with switch S open. When the switch is closed, the magnitude of gain becomes,



- A. X/2
- B. -X
- C. 2X
- D. -2X

ANSWER: A

- 2. Which of the following provides power gain in a transformer coupled class B power amplifier.
 - A. Centre tapped transformer.
 - B. Both the transistors.
 - C. Both Centre tapped transformer and transistors
 - D. Upper transistor alone.

ANSWER: C

- 3. A stable amplifier is one in which
 - A. the amplified output signal does not have any oscillation.
 - B. the output amplitude varies according to the input.
 - C. the output current increases rapidly.
 - D. the voltage gain increases rapidly.

ANSWER: A

- 4. The common mode gain in an operational amplifier should be _____
 - A. very high
 - B. very low.
 - C. varying always.
 - D. Controlled.

ANSWER: B

5.	The unit for slew rate is			
	A. V/Msec			
	B. $mV / \mu sec$.			
	C. V/ µsec.			
	D. V/ sec			
	ANSWER: C.			
6.	In an amplifier, the negative feedback			
	A. does not have impact on impedance and bandwidth.			
	B. Increases input impedance and bandwidth.			
	C. Decreases input impedance and bandwidth.			
	D. Increases output impedance.			
	ANSWER: B			
7.	Calculate the output offset voltage due to input offset voltage of 0.02V. Assume			
	voltage gain of op amp as10.			
	A. 0.02 V			
	B. 0.2V			
	C. 2V			
	D. 0.002V			
	Ans: B			
8.	When the non-inverting terminal of the op amp is fed with 5V and the inverting			
	terminal is fed with 3V as inputs, the output voltage of the op amp is			
	A.2V			
	B. 8 V.			
	C. 5 V			
	D.15 V.			
	ANSWER:A			
9.	The maximum current gain of a BJT transistor is obtained when the Q point is lying			
	on the of the DC load line.			
	A. central portion			
	B. upper portion			
	C. lower portion			
	D. cut off region			
	ANSWER:B			

10. De	termine the current gain of a BJT with collector current and base current being				
0.9	5m A and 50μ A respectively.				
A.	0.95				
B.	50				
C.	19				
D.	0.05				
	ANSWER:A				
11. Th	e current in the region will be more in a CE configured BJT.				
A.	Collector				
B.	Base				
C.	Drain				
D.	Emitter				
	ANSWER:D				
12. In o	In order to operate the transistor in safe operating area,				
A.	both the input and output regions are forward biased.				
B.	both the input and output regions are reverse biased.				
C.	emitter region is forward biased and collector region is reverse biased.				
D.	Only supply voltage is given.				
	ANSWER: C.				
13. In a	an n channel JFET, the I _{DS} varies when				
A.	the gate-source voltage and drain current increases.				
B. the gate-source voltage and drain current decreases .					
C. the gate-source voltage decreases and drain current does not vary .					
D.	the gate-source voltage increases and drain current does not vary .				
	ANSWER: B				
14. JFI	ET is adevice.				
A.	Unipolar				
B.	Bipolar.				
C.	Bidirectional				
D.	Unijunction				
	ANSWER: A				

15.	Th	e input resistance of JFET is	BJT.
	A.	Less than	
	B.	More than	
	C.	Equal to	
	D.	Always varying than that of	
		ANSWER: B	
16.	Tu	ned amplifiers belong to	
	A.	Class A.	
	B.	Class B.	
	C.	Class C	
	D.	Class AB.	
		ANSWER: C	
17.		coupling improves the overall ef	ficiency of power amplifiers.
	A.	RC	
	B.	Impedance	
	C.	Transformer	
	D.	Resistive	
		ANSWER: C	
18.	Th	e voltage gain of an amplifier	when a negative feedback is applied to it.
	A.	increases twice	
	B.	increases thrice	
	C.	reduces	
	D.	remains constant.	
		ANSWER: C	
19.	Th	e IC 555 Timer is a pin structured	
	A.	8	
	B.	6	
	C.	12	
	D.	10	
		ANSWER: A	

20. An oscillator is one in which input signal is fed in.
A. Sinusoidal
B. Square
C. No
D. Pulsating
ANSWER: C
21is the ratio of active conducting period of the switch to the total on and
off times of the switch.
A. Duty cycle
B. Reactive cycle
C. Active cycle
D. Delay cycl
ANSWER:A
22. Which of the following statement is true in UJT?
A. The valley point voltage and peak point voltage are equal.
B. The valley point voltage is greater than peak point voltage.
C. The valley point voltage is lesser than peak point voltage.
D. The valley point voltage lies in the third quadrant when UJT is operated.
ANSWER: C
23 is commonly used to generate pulses in relaxation oscillator.
A. UJT
B. BJT.
C. JFET.
D. Op- amp
ANSWER: A
24is stabilized in a current shunt feedback amplifier.
A. Impedance
B. Admittance
C. Current gain
D. Voltage gain
ANSWER: C

25.	feedback is applied to oscillators.
	11

- A. No
- B. Negative
- C. Positive
- D. Forward

ANSWER: C.