EE AND ECE IMPORTANT MCQ PDF- ANALOG ELECTRONICS 1

1. Which of the following amplifier is considered linear?

•	Class A Class B Class C Either A or B
2.	The voltage gain of a common collector configuration is
•	Unity Zero Very high Moderate
3.	A two-transistor class B power amplifier is commonly called
•	Push-pull amplifier Dual amplifier Symmetrical amplifier Differential amplifier
4.	If a transistor is operated in such a way that output current flows for 160 degrees of the input signal, then it is operation.
•	Class A Class C Class B Class AB
5.	Which coupling has the best frequency response?
•	Direct RC Transformer Transistor
6.	A transistor amplifier has high output impedance because
•	Emitter is heavily doped Collector is wider than emitter or base Collector has reverse bias Emitter has forward bias
7	Which of the following is considered an amplifier figure of merit?

Prevent attenuation of low frequency Prevent attenuation of high frequency

• Operating point

13. What is the point of intersection of dc and ac load lines called?

•	Gain-bandwidth product Beta (β) Alpha (α) Temperature
8.	What piece of equipment in an oscilloscope is used to indicate pulse condition in a digital logic circuit?
•	Probe Test prods Connector Logic probe
9.	What linear circuit compares two input signals and provides a digital level output depending on the relationship of the input signals?
•	Comaparator Controller Compressor Switch
10.	What type of coupling is generally used in power amplifiers?
•	Transformer Direct RC Inductive
11.	Which amplifier whose output current flows for the entire cycle?
•	Class A Class B Class C Class AB
12.	The coupling capacitor Cc must be large enough to in an RC coupling scheme.
•	Pass dc between the stages Dissipate high power

- Cut off point Saturation point Breakdown 14. An oscillator produces _____ oscillations. Damped Modulated Undamped Sinusoidal 15. What is the operating point in the characteristic curve called? **Quiescent point** Load point Biasing point Saturation point 16. Oscillators operate on the principle of

 - Positive feedback Negative feedback
 - Signal feedthrough
 - Attenuation
 - 17. In a class A amplifier, the output signal is
 - Distorted
 - The same as the input
 - Clipped
 - Smaller in amplitude than the input
 - 18. What happens if the input capacitor of a transistor amplifier is short-circuited?
 - Biasing conditions will change
 - Transistor will be destroyed
 - Signal will not reach the base
 - Biasing will stabilize
 - 19. Which is used to establish a fixed level of current or voltage in a transistor?
 - Biasing
 - Loading
 - Load line
 - Coupling

20.	Which power amplifier has the highest collector efficiency?
•	Class A Class C Class B Class AB
21.	What is a non-linear type of amplifier?
•	Class C Class AB Class B Class A
22.	An AF transformer is shielded to
•	Keep the amplifier cool Prevent the induction due to stray magnetic fields Protect from rusting Prevent electric shock
23.	Amplitude distortion is otherwise known as distortion.
•	Intermodulation Harmonic Phase Resonant
24.	What represents common-emitter small signal input resistance?
•	hie hfe hib hoe
25.	The ear is not sensitive to distortion.
•	Frequency Amplitude Harmonic Phase
26.	Class C is an amplifier whose output current flows for
•	Less than one-half the entire input cycle The entire input cycle

Equal toLess thanMore thanIndependent

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•	Twice the entire input cycle Greater than one-half the entire input cycle
27.	If gain without feedback and feedback factor are A and β respectively, then gain with negative feedback is given by
	A/ 1-A β A/ 1+ A β 1+A β / A (1+A β) A
28.	The collector current in an common base configuration is equal to
•	Alpha times emitter current plus leakage current Alpha times base current plus leakage current Beta times emitter current plus leakage current Beta times collector current plus leakage current
29.	Which is not a basic BJT amplifier configuration?
•	Common-drain Common-base Common-emitter Common-collector
30.	The value of collector load resistance in a transistor amplifier is the output impedance of the transistor.
•	Equal to More than Less than Not related
31.	What is the purpose of RC or transformer coupling?
•	To block ac To separate bias of one stage from another To increase thermal stability To block dc
32	The handwidth of a single stage amplifier is that of multistage amplifier

Transit time
Recombination
Transient time
Duty cycle

•	Equal to 1 Very much greater than 1 Less than 1 Zero
35.	The basic concept of the electric wave filter was originated by
•	Campbell and Wagner Norton Foster Bode and Darlington
36.	Which configuration has the lowest current gain?
	Common-base Common-collector Common-emitter Emitter follower
37.	Which transistor configuration offers no phase reversal at the output?
•	Common-base Common-collector Common-emitter Both A and B
38.	The number of stages that can be directly coupled is limited because
•	Change in temperature can cause thermal instability Circuit becomes heavily and costly It becomes difficult to bias the circuit Circuits' resistance becomes too large
39.	The input capacitor in an amplifier is called capacitor.
•	Coupling Stray

33. What is the time taken by the electrons or holes to pass from the emitter to the collector?

34. To obtain good gain stability in a negative feedback amplifier, AB is

BypassElectrolytic
40. AC load line has a/an slope compared to that of dc load line.
 Zero B. Smaller Smaller Bigger Infinite
41. A multistage amplifier uses at least how many transistors?
OneThreeFourTwo
42. RC coupling is used for amplification.
VoltageCurrentSignalPower
43. An ammeter's ideal resistance should be
 Zero Unity Infinite The same with the circuits resistance
44. What circuit increases the peak –to-peak voltage, current or power of a signal?
 Power supply Attenuator Amplifier Filter
45. When the non-linear distortion in an amplifier is D without feedback, with negative voltage feedback it will be
 D/1+ A β 1+ A β / D D (1+A β) D (1-A β)

46.	A tuned amplifier uses what load?
•	Resistive Capacitive LC tank Inductive
47.	The voltage gain over mid- frequency range in an RC coupled amplifier
•	Changes instantly with frequency Is constant Is independent of the coupling Is maximum
48.	The input impedance of an amplifier when negative voltage feedback is applied.
•	Decreases Becomes zero Increases Is unchanged
49.	The input impedance of an amplifier when negative current feedback is applied.
•	Remains unchanged Decreases Increases Becomes zero
50.	To obtain the frequency response curve of an amplifier is kept constant.
•	Generator output level Amplifier output Generator frequency Amplifier frequency