1) A JF	FET is a driven device
a)	current
b)	voltage
c)	both current and voltage
d)	none of the above
2) If th	e reverse bias on the gate of a JFET is increased, then width of the conducting channel
	is decreased
b)	is increased
c)	remains the same
d)	none of the above
3) A M	IOSFET can be operated with
a)	negative gate voltage only
b)	positive gate voltage only
c)	positive as well as negative gate voltage
d)	none of the above
4) A co	ommon base configuration of a pnp transistor is analogous to of a JFET
a)	common source configuration
b)	common drain configuration
	common gate configuration
d)	none of the above
5)	has the lowest noise-level
a)	triode
	ordinary trnsistor
,	tetrode
d)	JFET
6) In th	ne common mode,
a)	both inputs are grounded
b)	the outputs are connected together
c)	an identical signal appears on both the inputs
d)	the output signal are in-phase
7) Of t	he values listed, the most realistic value for open-loop voltage gain of an OP-amp is
a)	1
b)	2000
c)	80 dB
d)	100,000
8) Whi	ch factor is responsible for causing slew rate?
a)	Internal capacitor

b)	External resistor
c)	None of the mentioned
d)	Both internal and external capacitor
9) A ce	ertain noninverting amplifier has Ri of 1 k $\Omega$ and Rf of 100 k $\Omega$ . The closed-loop voltage gain is
a)	100,000
b)	1000
c)	101
d)	100
10) Th	e Op-amp can amplify
	a.c. signals only
	d.c. signals only
	both a.c. and d.c. signals
	neither d.c. nor a.c. signals
11) Mo	odulation is done in
a)	Transmitter
b)	Radio receiver
c)	Between transmitter and radio receiver
d)	None of the above
12) In	an AM wave useful power is carrier by
a)	Carrier
b)	Sidebands
c)	Both sidebands and carrier
d)	None of the above
13) Ov	rermodulation (amplitude) occurs when signal amplitude is carrier amplitude
a)	Equal to
b)	Greater than
c)	Less than
d)	None of the above
14) In	TV transmission, picture signal is modulated
a)	Frequency
b)	Phase
c)	Amplitude
d)	None of the above
15) Suj	perhertodyne principle refers to
a)	Using a large number of amplifier stages
b)	Using a push-pull circuit

c)	Obtaining lower fixed intermediate frequency
d)	None of the above
16) De	emodulation is done in
a)	Receiving antenna
b)	Transmitter
c)	Radio receiver
d)	Transmitting antenna
17) If	level of modulation is increased power is increased
a)	Carrier
b)	Sideband
c)	Carrier as well as sideband
d)	None of the above
18) M	an made noise are variations.
a)	Amplitude
b)	Frequency
c)	Phase
d)	Both phase and frequency
	ne IF is 455 kHz. If the radio receiver is tuned to 855 kHz, the local oscillator frequency is
a)	455 kHz
b)	1310 kHz
c)	1500 kHz
d)	1520 kHz
20) Tł	ne output voltage of phase detector is
a)	Phase voltage
b)	Free running voltage
c)	Error voltage
d)	None of the mentioned
21) At	what range the PLL can maintain the lock in the circuit?
a)	Lock in range
b)	Input range
c)	Feedback loop range
d)	None of the mentioned
22) Ho	ow many voltage levels are present in a PWM signal?
b)	

	۵)	
		2
	d)	3
22)	<b>W/</b> h	sigh pulse modulation technique is leget expensive?
		nich pulse modulation technique is least expensive?
		Pulse amplitude modulation
	,	Pulse width modulation
		Pulse position modulation
	d)	Pulse code modulation
24)	ΑP	PWM signal can be generated by
		An astable multi vibrator
		A monostable multi vibrator
	,	Integrating a PPM signal
		Differentiating a PPM signal
	u)	Differentiating a FFW signar
25)	TD	M requires
	a)	Constant data transmission
	b)	Transmission of data samples
	c)	Transmission of data at random
	d)	Transmission of data of only one measured
		, and the second
26)	Pov	wer amplifier directly amplifies
	a)	Voltage of signal
	b)	Current of the signal
	c)	Power of the signal
	d)	All of the mentioned
<b>~-</b> `	_	
27)		a perfect power amplifier output power rating will be if the output impedance is halved.
	a)	Halved
	b)	Squared
	c)	Doubled
	d)	Square rooted
28)	W/h	nich of the following is true for the active region of an npn transistor?
	a)	The collector current is directly proportional to the base current
	b)	The potential difference between the emitter and the collector is less than 0.4 V
	Ĺ	All of the mentioned
	c)	
	d)	None of the mentioned
29)	Wh	sich of the following is true for a pnp transistor in active region?
	a)	CB junction is reversed bias and the EB junction is forward bias
	b)	CB junction is forward bias and the EB junction is forward bias
	c)	CB junction is forward bias and the EB junction is reverse bias
	d)	CB junction is reversed bias and the EB junction is reverse bias

- 30) Why is the silicon mostly chosen when compared to germanium?
  - a) low power consumption
  - b) high efficiency
  - c) greater working temperature
  - d) large ICBO
- 31) The channel capacity according to Shannon's equation is
  - a. Maximum error free communication
  - b. Defined for optimum system
  - c. Information transmitted
  - d. All of the above
- 32) According to Shannon Hartley theorem,
  - a) The channel capacity becomes infinite with infinite bandwidth
  - b) The channel capacity does not become infinite with infinite bandwidth
  - c) Has a tradeoff between bandwidth and Signal to noise ratio
  - d) Both b and c are correct