



Electronic Mechanic - 23 Jan 2019 (Shift-1)

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75 Questions

Que. 1 Cell phone communication is a ____.

1. Full Simplex
2. Full Duplex
3. Simplex
4. Half Duplex

Testbook Solution Correct Option - 2

Que. 2 What type of radiation is emitted from a remote control?

1. Visible
2. Ultraviolet
3. Infrared
4. Radio frequency

Testbook Solution Correct Option - 3

Que. 3 What is the output of an LED driver?

1. Chopped AC
2. Pulsating DC
3. DC
4. AC

Testbook Solution Correct Option - 3

Que. 4 The BU205 transistor collector is the ____.

1. right side pin.
2. body of the transistor
3. centre pin.
4. left side pin.

Testbook Solution Correct Option - 2

Que. 5 Gama is the ratio of ____

1. emitter current to base current
2. collector current to emitter current
3. collector current to base current
4. base current to collector current

Testbook Solution Correct Option - 1

Que. 6 Window 10 is a/an ____

1. type of computer
2. operating and booting system

3. booting system
4. operating system.

Testbook Solution Correct Option - 4

Que. 7 A Capacitor function _____

1. stops AC and passes DC
2. stops DC and passes AC
3. passes both, AC and DC
4. stops both, AC and DC

Testbook Solution Correct Option - 2

Que. 8 The mail Merge function is present in:

1. Microsoft Word
2. Microsoft Excel and Microsoft Powerpoint
3. Microsoft Excel
4. Microsoft Powerpoint

Testbook Solution Correct Option - 1

Que. 9 Hybrid parameter calculations are used in _____

1. two-port linear network
2. Push pull
3. Class A amp
4. Darlington pair

Testbook Solution Correct Option - 1

Que. 10 In the _____ Storage Oscilloscope signals can be stored.

1. Cathode ray tube (CRT).
2. Digital Oscilloscope
3. Analog Oscilloscope.
4. VTVM

Testbook Solution Correct Option - 2

Que. 11 In case of silicon transistor the cutoff region voltage of base emitter is _____.

1. 0.5
2. 0.3
3. 0.4
4. > 0.7

Testbook Solution Correct Option - 4

Que. 12 IC 7805 is a _____ voltage regulator.

1. 15 V

2. 8 V
3. 6 V
4. 5 V

Testbook Solution Correct Option - 4

Que. 13 Formula for Number of Magnetic poles (P) in an Induction motor= _____

1. $(180 \times f)/N$
2. $(60 \times f)/N$
3. $(360 \times f)/N$
4. $(120 \times f)/N$

Testbook Solution Correct Option - 4

Que. 14 By combining two Class B amplifiers, we can build _____

1. Push-pull amplifier
2. LC coupling
3. RC coupling
4. TC coupling

Testbook Solution Correct Option - 1

Que. 15 In the context of mobile communication what is the full form of LTE?

1. Long Term Evolution
2. Last Time Evolution
3. Least Time Evolution
4. Long time Evolution

Testbook Solution Correct Option - 1

Que. 16 What is the forward voltage of LED?

1. 0.6 Vdc
2. 1.5 Vdc to 3 Vdc
3. 0.3 Vdc
4. 1.8 Vdc to 3.3 Vdc

Testbook Solution Correct Option - 4

Que. 17 Sine Wave Peak to peak = _____

1. RMS/ Square root of six
2. $\text{RMS} \times \text{Square root of three}$
3. $\text{RMS} / \text{Square root of two}$
4. $\text{RMS} \times \text{Square root of eight}$

Testbook Solution Correct Option - 4

Que. 18 Which of the following panels has the best viewing angle?

1. LCD
2. LED
3. Plasma
4. CRT

Testbook Solution Correct Option - 4

Que. 19 Find Current, if Resistance = 50 ohms and Power = 100 Watts

1. 2 A
2. 1.414 A
3. 3 A
4. 1.314 A

Testbook Solution Correct Option - 2

Que. 20 A center tap full rectifier consists of:

1. one diode
2. three diodes
3. two diodes
4. four diodes

Testbook Solution Correct Option - 3

Que. 21 Why is an N-channel MOSFET preferred over a P-channel MOSFET?

1. Because it allows fast switching
2. Because it is TTL compatible.
3. Because of its low input impedance.
4. Because of the low noise.

Testbook Solution Correct Option - 1

Que. 22 In an induction motor, stator is the

1. rotary part
2. part that is stationary
3. part that controls the speed
4. rotary and part that controls the speed

Testbook Solution Correct Option - 2

Que. 23 What can a CRO measure?

1. Capacitance.
2. resistance
3. inductance
4. frequency

Testbook Solution Correct Option - 4

- Que. 24** LCD TV work on the principle of _____
1. emission of cathode rays and light
 2. emission of cathode rays
 3. light emission
 4. light blockage

Testbook Solution Correct Option - 4

- Que. 25** What is the beta current ratio of a transistor?
1. I_C/I_B
 2. I_B/I_E
 3. I_E/I_C
 4. I_C/I_E

Testbook Solution Correct Option - 1

- Que. 26** How are SMD components in bulk mounted on PCB?
1. Using hot air blower
 2. Using soldering iron
 3. Using wave soldering machine
 4. Using soldering pot

Testbook Solution Correct Option - 3

- Que. 27** Secondary cells _____
1. can be recharged and reused
 2. can be charged but cannot be reused
 3. cannot be recharged
 4. cannot be charged and reused

Testbook Solution Correct Option - 1

- Que. 28** IC 7812 is a _____ voltage regulator.
1. 78 V
 2. 8 V
 3. 21 V
 4. 12 V

Testbook Solution Correct Option - 4

- Que. 29** Impedance can be measured using which among the following instrument?
1. LCR meter
 2. CRO
 3. DSO
 4. Function generator

Testbook Solution Correct Option - 1

Que. 30 _____ transistor/s are required for single stage amplification.

1. 1
2. 2
3. 4
4. 3

Testbook Solution Correct Option - 1

Que. 31 8-bit registers consist of ____ Flip Flop.

1. 4
2. 12
3. 16
4. 8

Testbook Solution Correct Option - 4

Que. 32 Which of the following LED colours is NOT present in an LED TV panel?

1. Green
2. White
3. Red
4. Blue

Testbook Solution Correct Option - 2

Que. 33 Saw tooth wave can be generated through the _____

1. Schmitt trigger
2. Hartley oscillator
3. Colpitts oscillator
4. Crystal oscillator

Testbook Solution Correct Option - 1

Que. 34 AND gate EXOR gate combination is _____

1. both full and half adder.
2. full adder
3. half adder
4. flip flop

Testbook Solution Correct Option - 3

Que. 35 Which of the following circuits is used to add a DC offset to waveform?

1. Clamper
2. Clipper
3. Amplifier
4. Rectifier

Testbook Solution Correct Option - 1

Que. 36 An RLC series resonance boosts:

1. current
2. resistance
3. frequency
4. inductance

Testbook Solution Correct Option - 1

Que. 37 Which of the following display interfaces can carry both, analog signals and digital signals?

1. VGA
2. HDMI
3. Optical
4. DVI

Testbook Solution Correct Option - 4

Que. 38 Which transistor configuration amplifier's current gain is lowest?

1. Emitter coupled
2. Common Emitter
3. Common Collector
4. Common base

Testbook Solution Correct Option - 4

Que. 39 . _____ technology is used in TV remotes.

1. LCD
2. Infrared lights
3. Ultraviolet rays
4. Ultraviolet rays and LCD

Testbook Solution Correct Option - 2

Que. 40 Which of the following is an Operational amplifier?

1. IC 8085
2. IC 7805
3. IC 741
4. IC 555

Testbook Solution Correct Option - 3

Que. 41 RAM is a _____

1. type of software
2. CPU register
3. temporary memory device
4. permanent memory device.

Testbook Solution Correct Option - 3

Que. 42 Transistor in saturation region works as _____.

1. Switch
2. Attenuator
3. Oscillator
4. Amplifier

Testbook Solution Correct Option - 1

Que. 43 An Inductive Reactance function:

1. opposes alternating current
2. opposes direct current
3. allows alternating current
4. allows alternating current and direct current.

Testbook Solution Correct Option - 1

Que. 44 If a diode shows equal resistance but not zero in both directions then the diode must be _____.

1. short
2. defective
3. working fine
4. open

Testbook Solution Correct Option - 2

Que. 45 A unijunction transistor (UJT) is used to _____

1. boost the SCR
2. amplify DC
3. boost and trigger TRIAC
4. trigger the SCR

Testbook Solution Correct Option - 4

Que. 46 For which of the following functions can a Schmitt trigger be used?

1. Pulse shaping
2. Blocking
3. Amplification
4. Filtering

Testbook Solution Correct Option - 1

Que. 47 Which of the following computer hardware is used to display feedback of our actions?

1. Keyboard
2. Mouse
3. Monitor
4. Printer

Testbook Solution Correct Option - 3

Que. 48 A Hartley oscillator is commonly used in _____.

1. Radio Receivers
2. Radio Transmitters
3. TV Receivers
4. TV Transmitters

Testbook Solution Correct Option - 1

Que. 49 Which of the following is a concept in mobile communication?

1. Triplexing
2. Duplexing.
3. Simplexing
4. Quadraplexing

Testbook Solution Correct Option - 2

Que. 50 Solar cells work on the principle of _____.

1. Isolation and Opto coupling
2. Isolation
3. Photo Voltaic
4. Opto Coupling.

Testbook Solution Correct Option - 3

Que. 51 In the case of optical fiber transmission link, LED's and LASER's are used as _____

1. Detectors
2. Sources
3. Repeaters
4. Amplifiers

Testbook Solution Correct Option - 2

Que. 52 For Clamp circuit one must _____

1. add DC signal with DC
2. add AC signal with DC
3. add AC signal with AC
4. subtract AC from DC

Testbook Solution Correct Option - 2

Que. 53 Which material is used to prepare optical fiber as a transmission media?

1. Glass and Plastic
2. Copper
3. Silver
4. Aluminium.

Testbook Solution Correct Option - 1

Que. 54 In Microsoft Excel we cannot calculate _____

1. differentiation problems
2. division problems
3. arithmetic problems.
4. multiplication problems

Testbook Solution Correct Option - 1

Que. 55 If a regulator IC provides a voltage higher than input, then the converter is known as ____.

1. Boost
2. Buck
3. Buffer
4. Buck Boost

Testbook Solution Correct Option - 1

Que. 56 Transformer Eddy current losses are created due to _____

1. secondary winding
2. copper
3. core
4. primary winding

Testbook Solution Correct Option - 3

Que. 57 What happens to the Base emitter voltage of a transistor due to increase in temperature?

1. Becomes 0
2. decreases
3. remains the same
4. increases

Testbook Solution Correct Option - 2

Que. 58 Reverse biasing of a Zener diode _____

1. conducts electricity
2. does not conduct electricity
3. amplifies electricity
4. oscillates

Testbook Solution Correct Option - 1

Que. 59 What colour LED lamp is commonly used for domestic use?

1. White
2. Black
3. Red
4. Green

Testbook Solution Correct Option - 1

Que. 60 The point intersection of DC and AC load line is known as _____.

1. Voltage gain.
2. Operating point.
3. Power gain.
4. Current gain.

Testbook Solution Correct Option - 2

Que. 61 In two stages, Transistor TC coupling _____

1. creates isolation between the two stages
2. blocks the AC between the two stages
3. creates direct coupling between the two stages
4. stops the AC and passes the DC

Testbook Solution Correct Option - 3

Que. 62 With Class C amplifier, gain is _____ compared to Class A amplifier.

1. low
2. equal
3. high
4. moderate

Testbook Solution Correct Option - 3

Que. 63 10 cells are connected in parallel with the internal resistance of $1\ \Omega$ and 1.5 Volts. the total voltage and total resistance is _____

1. 10 V and $1.5\ \Omega$
2. 1.5 V and $0.1\ \Omega$
3. 100 V and $50\ \Omega$
4. 1.8 V and $1.5\ \Omega$

Testbook Solution Correct Option - 2

Que. 64 Which of the following software is used for programming a micro controller?

1. Microsoft Word
2. Microsoft Paint
3. Microsoft Excel
4. Keil

Testbook Solution Correct Option - 4

Que. 65 An amplifier with a positive feedback circuit causes _____

1. bandwidth to stabilize
2. gain of an amplifier to stabilize
3. bandwidth to decrease
4. bandwidth to increase

Testbook Solution Correct Option - 3

Que. 66 If a regulator IC provides lower than input then the converter is known as _____.

1. Boost
2. Buffer
3. Buck-Boost
4. Buck

Testbook Solution Correct Option - 4

Que. 67 What is the use of an LED driver?

1. It converts DC to AC
2. It converts AC to DC
3. It converts AC to AC
4. It converts DC to DC

Testbook Solution Correct Option - 2

Que. 68 In a PNP Transistor voltage divider biasing _____ resistors are used:

1. one
2. four
3. three
4. two

Testbook Solution Correct Option - 2

Que. 69 On the load line (with AC input in CE) which one of the following is NOT possible?

1. cut-off point
2. oscillation
3. saturation point
4. Q/operating point.

Testbook Solution Correct Option - 2

Que. 70 The heat sink of the BU205 transistor can be connected _____

1. directly
2. through a mica sheet
3. directly and through the cap
4. through the cap

Testbook Solution Correct Option - 2

Que. 71 Which of the following is a feature of a Darlington pair amplifier?

1. Voltage gain is nil
2. High input impedance and low voltage gain
3. Low input impedance and low voltage gain

4. high input impedance and high voltage gain

Testbook Solution Correct Option - 2

Que. 72 On which of the following frequencies does a Wi-Fi network work?

1. 2.4 MHz
2. 5 MHz
3. 10 GHz
4. 5 GHz

Testbook Solution Correct Option - 4

Que. 73 A unijunction transistor (UJT) is used to generate a ____ wave

1. square
2. sine
3. sawtooth
4. triangle

Testbook Solution Correct Option - 3

Que. 74 A Flip Flop is a oscillator.

1. four stable
2. bi-stable
3. mono stable
4. three stable.

Testbook Solution Correct Option - 2

Que. 75 What is the full form of MCB?

1. Miniature circuit Broker
2. Maximum Circuit Breaker
3. Miniature Circuit Breaker
4. Minimum Circuit Breaker

Testbook Solution Correct Option - 3
