

## FINAL ANSWER KEY

Question 133/2024/OL

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Question1:-A wire has 'R' ohm resistance, the diameter of wire is halved its resistance will be

A:-4R

B:-2R

C:-R/2

D:-No change

Correct Answer:- Option-A

Question2:-At resonance condition, in AC circuit impedance will be

A:-Maximum

B:-Minimum

C:-Remains the same

D:-Directly proportional to the current

Correct Answer:-**Question Cancelled**

Question3:-Three resistance 30 ohms, 60 ohms and 90 ohms are connected in delta. What will be the resistance for an equivalent star connection

A:-15 ohm, 10 ohm and 30 ohm

B:-5 ohm, 10 ohm and 15 ohm

C:-10 ohm, 20 ohm and 30 ohm

D:-5 ohm, 3.33 ohm and 15 ohm

Correct Answer:- Option-A

Question4:-Working principle of DC motor is

A:-Faraday's laws of electromagnetic induction

B:-Faraday's laws of electrolysis

C:-Kirchhoff's law

D:-Ohm's law

Correct Answer:- Option-A

Question5:-Which one of the following is a example for paramagnetic material ?

A:-Bismuth

B:-Cobalt

C:-Platinum

D:-Gold

Correct Answer:- Option-C

Question6:-Relative permittivity of free space is

A:-1

B:- $8.85 \times 10^{-12}$  F/m

C:- $4\pi \times 10^{-7}$  H/m

D:- $1.6 \times 10^{-19}$  coulomb

Correct Answer:- Option-A

Question7:-Unit of reluctance is

A:-Weber/m<sup>2</sup>

B:-Tesla

C:-AT/Weber

D:-Weber/AT

Correct Answer:- Option-C

Question8:-Which starter is used to start slip ring induction motor

A:-DOL starter

B:-Rotor resistance starter

C:-Star delta starter

D:-Auto transformer starter

Correct Answer:- Option-B

Question9:-The main purpose of transformer core is to

A:-Reduce eddy current loss

B:-Reduce hysteresis loss

C:-Decreases copper loss

D:-Decreases the reluctance of magnetic flux path

Correct Answer:- Option-D

Question10:-Fusing factor of HRC fuse is

A:-1

B:-1.1

C:-1.8

D:-1.41

Correct Answer:- Option-B

Question11:-For inductive loads which type of MCB's are used

A:-'L' series

B:-'DC' series

C:-'G' series

D:-None of these

Correct Answer:- Option-C

Question12:-Minimum distance between an earthing electrode and the building is

A:-0.9 m

B:-1.5 m

C:-8 m

D:-2.5 m

Correct Answer:- Option-B

Question13:-The efficiency of transformer is maximum when

A:-It's variable loss greater than the fixed loss

B:-It's variable loss less than the fixed loss

C:-At 1/4th of the full load

D:-It's variable loss is equal to the fixed loss

Correct Answer:- Option-D

Question14:-A repulsion motor is equipped with

A:-Slip rings

B:-Commutator

C:-Rectifier

D:-All of these

Correct Answer:- Option-B

Question15:-In DC machines interpoles are provided to

A:-Increases armature reaction

B:-Speed control

C:-Prevent hunting

D:-Smooth commutation

Correct Answer:- Option-D

Question16:-Which type resistor is used where low resistance value and high power rating is required ?

A:-Carbon composition resistor

B:-Carbon Film resistor

C:-Wire wound resistor

D:-Metal film resistor

Correct Answer:- Option-C

Question17:-The capacitance of a capacitor which can store one coulomb of charge

on each conductor causes a voltage of one volt across the device is

A:-1 Farad

B:-1 micro Farad

C:-1 Pico Farad

D:-1 Nano Farad

Correct Answer:- Option-A

Question18:-Which of the following statement is true in case of pure inductive circuit ?

A:-Both the current and voltage are in same phase

B:-Voltage lags the current by  $90^\circ$

C:-Current lags the voltage by  $90^\circ$

D:-Current leads the voltage by  $90^\circ$

Correct Answer:- Option-C

Question19:-Choose the correct statement about resonant circuit

A:-The bandwidth increases with Q factor

B:-The bandwidth decreases with Q factor

C:-No change in bandwidth with Q factor

D:-The bandwidth is directly proportional with Q factor

Correct Answer:- Option-B

Question20:-An intrinsic semiconductor act as \_\_\_\_\_ in absolute zero temperature

A:-Conductor like a metal

B:-Partial Conductor

C:-Conductor

D:-Insulator

Correct Answer:- Option-D

Question21:-What type of breakdown occurs in semiconductor junction who is heavily doped and has a narrow depletion layer ?

A:-Avalanche breakdown

B:-Zener breakdown

C:-Junction breakdown

D:-No breakdown

Correct Answer:- Option-B

Question22:-Which of the following is the highest current in Bi-polar junction transistor ?

A:- $I_e$

B:- $I_b$

C:-Ic

D:-Icbo

Correct Answer:- Option-A

Question23:-\_\_\_\_\_ electronic component is used to trigger TRIAC.

A:-UJT

B:-DIAC

C:-FET

D:-SCS

Correct Answer:- Option-B

Question24:-\_\_\_\_\_ type MOSFET is equivalent to a "Normally Open" switch.

A:-The enhancement mode MOSFET

B:-The depletion mode MOSFET

C:-Saturation mode MOSFET

D:-Ohmic mode MOSFET

Correct Answer:- Option-A

Question25:-Which of the following statement is correct ?

A:-An SCR has 3 PNP layers and 2 leads

B:-An SCR has 3 NPN layers and 3 leads

C:-An SCR has 4 PNPN layers and 3 leads

D:-An SCR has 4 junctions and 4 leads

Correct Answer:- Option-C

Question26:-Which of the following components can be used in clipper circuits ?

i) Diode

ii) Zener diode

iii) Transistor

A:-Only (i)

B:-Only (ii)

C:-Only (i and ii)

D:-All of the above (i, ii and iii)

Correct Answer:- Option-D

Question27:-A filter that provides a constant output till the cutoff frequency  $f_c$  and then passes no signal is called

A:-Band-stop filter

B:-Band-pass filter

C:-Low-pass filter

D:-High-pass filter

Correct Answer:- Option-C

Question28:-What is the transformer utilization factor of Centre Tap full wave rectifier ?

A:-0.812

B:-0.692

C:-0.482

D:-0.286

Correct Answer:- Option-B

Question29:-Which of the following statement is/are correct about a common collector configuration ?

i) It provides very high output impedance.

ii) The voltage gain of the common collector configuration is always less than unity.

iii) A  $180^\circ$  phase shift is created between the input and output waveforms.

A:-Only (i)

B:-Only (ii)

C:-Only (ii and iii)

D:-All of the above (i, ii and iii)

Correct Answer:- Option-B

Question30:-Which of the following statements describe the requirements of a transistor biasing circuit ?

i) The biasing circuit should set the operating point in the saturation region.

ii) The biasing circuit should stabilize the collector current against temperature variations.

iii) The biasing circuit should make the operating point independent of transistor parameters.

A:-Only (i)

B:-Only (ii)

C:-Only (ii and iii)

D:-All of the above (i, ii and iii)

Correct Answer:- Option-C

Question31:-Which of the following statements is/are correct about a direct-coupled amplifier ?

i) It is suitable for amplifying DC.

ii) It is suitable for amplifying very high-frequency signals

iii) It offers good temperature stability.

A:-Only (i)

B:-Only (ii)

C:-Only (i and iii)

D:-All of the above (i, ii and iii)

Correct Answer:- Option-A

Question32:-In a single-stage common-emitter transistor amplifier, the DC supply

voltage ( $V_{CC}$ ) is 12V, and the collector resistor ( $R_C$ ) is 2k $\Omega$ . The transistor has a DC current gain ( $\beta$ ) of 100. If the base current ( $I_B$ ) is 20  $\mu$ A. What is the collector-emitter voltage ( $V_{CE}$ ) ?

A:-2 V

B:-4 V

C:-8 V

D:-10 V

Correct Answer:- Option-C

Question33:-Which of the following statements is/are advantages of negative feedback ?

i) Gain stability

ii) Increased input impedance

iii) Reduced Nonlinear Distortion

A:-Only (i)

B:-Only (ii)

C:-Only (i and iii)

D:-All of the above (i, ii and iii)

Correct Answer:- Option-D

Question34:-Which of the following statements is/are correct about a Wien Bridge Oscillator ?

i) It is a very high frequency oscillator circuit.

ii) The frequency of oscillation can be easily varied by varying capacitance value in the bridge.

iii) It offers good frequency stability compared to a crystal oscillator.

A:-Only (i)

B:-Only (ii)

C:-Only (i and iii)

D:-All of the above (i, ii and iii)

Correct Answer:- Option-B

Question35:-Which of the following statements is/are correct about IC 555 ?

i) When the threshold pin voltage increases above 2/3 of  $V_{CC}$ , the output becomes logic LOW.

ii) When the trigger pin voltage falls below 1/3 of  $V_{CC}$ , the output becomes logic HIGH.

iii) After triggering the output stays logic HIGH even if the trigger pin voltage goes above 1/3 of  $V_{CC}$ .

A:-Only (i)

B:-Only (ii)

C:-Only (ii and iii)

D:-All of the above (i, ii and iii)

Correct Answer:- Option-D

Question36:-Which of the following is true for the 555 timer in a monostable configuration ?

- i) The output stays high until triggered, and then goes low immediately after the triggering.
- ii) The output pulse width is determined by the external RC networks connected to the IC 555.
- iii) The output pulse width is determined by the input signal frequency.

A:-Only (i)

B:-Only (ii)

C:-Only (i and iii)

D:-Only (ii and iii)

Correct Answer:- Option-B

Question37:-Which of the following statements is/are correct about the CMRR of an operational amplifier ?

- i) CMRR is the ability of operational amplifier to reject noise.
- ii) CMRR is the ratio of common mode voltage gain to the differential voltage gain.
- iii)The least value of CMRR is most desirable.

A:-Only (i)

B:-Only (ii)

C:-Only (i and ii)

D:-All of the above (i, ii and iii)

Correct Answer:- Option-A

Question38:-Which of the following is/are uses of flux in soldering ?

- i) To increase the melting point of solder.
- ii) To improve the mechanical strength of the joint.
- iii) To remove oxidation from the metal surfaces.

A:-Only (i)

B:-Only (ii)

C:-Only (iii)

D:-All of the above (i, ii and iii)

Correct Answer:- Option-C

Question39:-Which of the following statements is/are correct about wave soldering ?

- i) Wave soldering is best suited for mixed-technology circuit boards.
- ii) Wave soldering has more precise temperature control than reflow soldering.
- iii) Wave soldering uses infrared lamps or hot air for heat generation.

A:-Only (i)

B:-Only (ii)

C:-Only (i and ii)

D:-Only (i and iii)

Correct Answer:- Option-A



Question40:-Which of the following statements is/are advantages of Surface Mount Technology ?

- i) Higher component density
- ii) Easy automated assembly.
- iii) Better mechanical performance under shock and vibration.

A:-Only (i)

B:-Only (ii)

C:-Only (i and ii)

D:-All of the above (i, ii and iii)

Correct Answer:- Option-D

Question41:-Decimal number 0.125 may be written in binary system as

i) .001

ii) 0.0101

iii) 0.1101

A:-Only (i)

B:-Only (i and ii)

C:-All of the above (i, ii and iii)

D:-Only (i and iii)

Correct Answer:- Option-A

Question42:-ASCII code is

i) A 6-bit code

ii) A 4-bit code

iii) A 7-bit code

A:-All of the above (i, ii and iii)

B:-Only (i)

C:-Only (iii)

D:-Only (i and ii)

Correct Answer:- Option-C

Question43:-A '0'sign bit indicates

i) Negative number

ii) Positive number

iii) Positive or zero

A:-Only (i and ii)

B:-Only (ii)

C:-Only (ii and iii)

D:-Only (iii)

Correct Answer:- Option-C

Question44:-Binary equivalent of gray code number 0100 is

i) 0010

ii) 0111

iii) 1010

- A:-Only (i)
- B:-Only (ii)
- C:-Only (i and ii)
- D:-Only (iii)

Correct Answer:- Option-B

Question45:-Which gate has the output low only when both inputs are high ?

- i) AND
- ii) OR
- iii) NAND

- A:-Only (i)
- B:-Only (ii)
- C:-Only (ii and iii)
- D:-Only (iii)

Correct Answer:- Option-D

Question46:-Which of the following is not a sequential logic circuit ?

- i) Flip-Flop
- ii) Multiplexer
- iii) Counter

- A:-Only (i)
- B:-Only (ii)
- C:-Only (i and ii)
- D:-All of the above (i, ii and iii)

Correct Answer:- Option-B

Question47:-A flip-flop can store

- i) 3 bits of data
- ii) 2 bits of data
- iii) 4 bits of data
- iv) A single bit of data

- A:-Only (iv)
- B:-Only (i)
- C:-Only (ii and iii)
- D:-All of the above (i, ii, iii and iv)

Correct Answer:- Option-A

Question48:-A shift register can be used for

- i) Parallel to serial conversion only.
- ii) Serial to parallel conversion only.
- iii) Digital time delay only.

- A:-Only (i)
- B:-Only (i and ii)
- C:-Only (ii and iii)

D:-All of the above (i, ii and iii)

Correct Answer:- Option-D

Question49:-ROM consists of

- i) A decoder followed by an encoder.
- ii) A encoder followed by a decoder.
- iii) None of the above

A:-Only (i and ii)

B:-Only (ii)

C:-Only (i)

D:-Only (iii)

Correct Answer:- Option-C

Question50:-How is data erased in an EPROM ?

- i) By applying electrical charge.
- ii) By heating the chip.
- iii) By exposing to UV light.

A:-Only (i)

B:-Only (ii)

C:-Only (i and ii)

D:-Only (iii)

Correct Answer:- Option-D

Question51:-Which of the following materials are commonly used to make thermistors ?

A:-Gallium and Arsenic

B:-Silicon and Germanium

C:-Ceramic and metal oxides

D:-Carbon and lead

Correct Answer:- Option-C

Question52:-The materials used in a Type T thermocouple is

A:-Iron and Constantan

B:-Copper and Constantan

C:-Chromel and Alumel

D:-Platinum and Platinum-Rhodium

Correct Answer:- Option-B

Question53:-Which of the following characteristic is preferred for strain gauge materials ?

A:-High resistivity

B:-High temperature sensitivity

C:-High hysteresis

D:-High thermal e.m.f.

Correct Answer:- Option-A

Question54:-In a PMMC Instrument, the accuracy of the meter can be affected by temperature changes. Which of the following components is most affected to temperature leading errors ?

A:-The permanent magnet's magnetic field strength

B:-The damping system

C:-The calibration of scale

D:-The resistance of the moving coil

Correct Answer:- Option-D

Question55:-If a PMMC ammeter with a resistance of 1 ohm and full scale current of 1 A is modified to measure currents upto 10 A, the required shunt resistance is

A:-0.1 ohm

B:-0.5 ohm

C:-1.0 ohm

D:-9 ohm

Correct Answer:- Option-A

Question56:-The characteristic of a Permanent Magnet Moving Iron Instrument is

A:-Linear scale

B:-Uniform scale

C:-No Hysteresis loss

D:-Deflecting torque is proportional to the square of the current

Correct Answer:-**Question Cancelled**

Question57:-The modulation technique most commonly used for transmitting digital data in satellite telemetry is

A:-Amplitude Modulation

B:-Binary Phase Shift Keying

C:-Frequency Modulation

D:-Pulse Width Modulation

Correct Answer:- Option-B

Question58:-A DSO has a bandwidth of 200 MHz. What is the highest frequency it can measure accurately ?

A:-20 MHz

B:-100 MHz

C:-200 MHz

D:-400 MHz

Correct Answer:- Option-C

Question59:-In a CRO the horizontal amplifier is designed for

- A:-High amplitude signals with a fast rise time
- B:-High amplitude signals with a slow rise time
- C:-Low amplitude signals with a fast rise time
- D:-High frequency signals with a fast rise time

Correct Answer:- Option-B

Question60:-Telephone companies make use of the Wheatstone bridge for

- A:-Measuring the telephone wire resistance
- B:-Maintaining dialtones
- C:-Locating the cable faults
- D:-Computing the line strength

Correct Answer:- Option-C

Question61:-In a perfectly polarizable electrode

A:-There is no charge transfer between the electrode-electrolyte boundary and the electrode behaves like a capacitor

B:-There is no charge transfer between the electrode-electrolyte boundary and the electrode behaves like an inductor

C:-There is charge transfer between the electrode-electrolyte boundary and the electrode behaves like a diode

D:-There is charge transfer between the electrode-electrolyte boundary and the electrode behaves like an inductor

Correct Answer:- Option-A

Question62:-While using sphygmomanometer and stethoscope for measuring BP, the pressure cuff on the upper arm is first inflated to a pressure

- A:-Well below the diastolic pressure
- B:-Below the systolic pressure
- C:-Well above the systolic pressure
- D:-Any convenient pressure level

Correct Answer:- Option-C

Question63:-In a compound light microscope

- A:-Objective lens forms the real image and eyepiece forms the virtual image
- B:-Objective lens forms the virtual image and eyepiece forms the real image
- C:-Both Objective and eyepiece forms the real image
- D:-Both Objective and eyepiece forms the virtual image

Correct Answer:- Option-A

Question64:-Lawn waveform is an

- A:-Underdamped waveform produced by dc defibrillator

B:-Overdamped waveform produced by dc defibrillator

C:-Underdamped waveform produced by pacemaker

D:-Overdamped waveform produced by pacemaker

Correct Answer:- Option-A

Question65:-When a person goes into deep sleep, the EEG signal becomes

A:-High frequency with low amplitude

B:-Low frequency with high amplitude

C:-Extremely high frequency with no change in amplitude

D:-None of the above

Correct Answer:- Option-B

Question66:-Amplitude of noninvasive surface EMG

A:-0.005-2.0 mV

B:-5-100 mV

C:-150-200 mV

D:-500-650 mV

Correct Answer:- Option-A

Question67:-X ray imaging technology incorporates Bucky diaphragm

A) It can reduce scatter radiation.

B) It is placed between the patient and the X ray film.

A:-Only A is correct

B:-Only B is correct

C:-Neither A nor B is correct

D:-Both A and B are correct

Correct Answer:- Option-D

Question68:-Choose the correct option(s)

A) Low frequency ultrasound will scatter more than high frequency ultrasound

B) High frequency ultrasound will give better resolution than low frequency ultrasound

A:-Only (A) is correct

B:-Only (B) is correct

C:-Both (A) and (B) are correct

D:-Neither (A) nor (B) is correct

Correct Answer:- Option-B

Question69:-Standard which defined the requirements for the nature and frequency of routine electrical testing of medical equipment ?

A:-IEC 63353

B:-IEC 82353

C:-IEC 83353

D:-IEC 62353

Correct Answer:- Option-D

Question70:-Full form of FMEA

A:-Functional Mode and Effects Assessment

B:-Failure Mode and Effects Assessment

C:-Failure Mode and Effects Analysis

D:-Functional Mode and Effects Analysis

Correct Answer:- Option-C

Question71:-Electromagnetic interference on pacemakers may occur due to the presence of

A) Electrosurgical Unit

B) Defibrillator

C)Theft Prevention security system

D) Audiometer

A:-(A), (B) and (C) are correct

B:-(A), (C) and (D) are correct

C:-(B), (C) and (D) are correct

D:-(A), (B) and (D) are correct

Correct Answer:- Option-A

Question72:-Consider the following statements

(A) Incubator has better regulation of temperature than an infant warmer.

(B) Incubator is less convenient for accessing the infant than infant warmer.

A:-Only (A) is correct

B:-Only (B) is correct

C:-Both (A) and (B) are correct

D:-Neither (A) nor (B) is correct

Correct Answer:- Option-C

Question73:-In a measurement using colorimeter, if the path length is doubled and the concentration of the solution is halved, the absorbance will become

A:-Double

B:-Four times

C:-No change

D:-Half

Correct Answer:- Option-C

Question74:-Centrifuges are used for separating materials based on

A:-Volume

B:-Density

C:-Mass

D:-Colour

Correct Answer:- Option-B

Question75:-Choose the correct answer. In spectrophotometry

A) Diffraction grating can be used as a monochromator to transmit narrow band of wavelength of light.

B) Prism can be used as a monochromator to transmit narrow band of wavelength of light

A:-Both (A) and (B) are true

B:-(A) is true (B) is false

C:-(A) is false (B) is true

D:-Both (A) and (B) are false

Correct Answer:- Option-A

Question76:-Ultrasound echoes are plotted on a graph in which horizontal axis represents the depth into the patient and the vertical axis represents the amplitude of the return echo. Which method of display is it

A:-M-mode

B:-B-mode

C:-A-mode

D:-None of the above

Correct Answer:- Option-C

Question77:-High speed refrigerated centrifuge often maintains a temperature of

A:-4°C

B:-14°C

C:-15°C

D:-16°C

Correct Answer:- Option-A

Question78:-Anode supply voltage of shortwave diathermy

A:-40 V

B:-400 V

C:-4000 V

D:-40000 V

Correct Answer:- Option-C

Question79:-Choose the correct answer by comparing diagnostic and therapeutic X-ray machines

A:-Therapeutic X-ray employs higher kV and longer exposure time than diagnostic X-ray

B:-Therapeutic X-ray employs higher kV and shorter exposure time than diagnostic X-ray

C:-Therapeutic X-ray employs lower kV and longer exposure time than



diagnostic X-ray

D:-Therapeutic X-ray employs lower kV and shorter exposure time than diagnostic X-ray

Correct Answer:- Option-A

Question80:-Which of the following devices uses aerosol for delivering medication ?

A:-Infusion pump

B:-Subcutaneous injection

C:-Intravenous injection

D:-Nebulizer

Correct Answer:- Option-D

Question81:-In 8085, how many bit program counter is available ?

A:-32 Bit

B:-4 Bit

C:-16 Bit

D:-8 Bit

Correct Answer:- Option-C

Question82:-The address bus is \_\_\_\_\_ bit wide in 8086 microprocessor ?

A:-12 bit

B:-20 bit

C:-10 bit

D:-16 bit

Correct Answer:- Option-B

Question83:-The 8086 fetches instruction one after another from \_\_\_\_\_ of memory.

A:-ES

B:-Code Segment

C:-IP

D:-SS

Correct Answer:- Option-B

Question84:-The 8086 operates in \_\_\_\_\_ mode if MN/MX is low.

A:-Maximum

B:-Minimum

C:-Both A and B

D:-Medium

Correct Answer:- Option-A

Question85:-What is the content of accumulator 8085 microprocessor after the execution of XRI F0 H instruction ?

A:-Clear the upper 4 bits of accumulator in 8085

B:-Complement the lower 4 bits of accumulator in 8085

C:-Clear the lower 4 bits of accumulator in 8085

D:-Complement the upper 4 bits of accumulator in 8085

Correct Answer:- Option-D

Question86:-For a power-on reset circuit of 8051, the capacitor should be of \_\_\_\_\_ ?

A:-0.001  $\mu$ F

B:-0.01  $\mu$ F

C:-10  $\mu$ F

D:-0.1  $\mu$ F

Correct Answer:- Option-B

Question87:-The number of pins for a 8051 in DIP is ?

A:-20

B:-16

C:-48

D:-40

Correct Answer:- Option-D

Question88:-How many SFRs are there in 8051 ?

A:-21

B:-27

C:-20

D:-22

Correct Answer:- Option-A

Question89:-What would be the content of the accumulator after execution of the instruction, MOV A, SP just after system reset ?

A:-07H

B:-Undefined

C:-08H

D:-09H

Correct Answer:- Option-A

Question90:-The external interrupts of 8051 microcontroller are

A:-TRAP AND INTR

B:-TRAP AND INT1

C:-INT0 AND INT1

D:-INT2 AND INT1

Correct Answer:- Option-C

Question91:-Which electrolyte is used in Carbon-Zinc dry cell ?

A:-Dilute Sulphuric Acid

B:-Ammonium Chloride

C:-Potassium Hydroxide

D:-Zinc Carbonate

Correct Answer:- Option-B

Question92:-When 6-cells of 1.5 V each are connected in parallel across a load, the output voltage would be

A:-1.5 V

B:-0.25 V

C:-9 V

D:-0 volt

Correct Answer:- Option-A

Question93:-Which of the following statement is not correct about Lead-acid battery ?

A:-The positive plate is lead peroxide

B:-Electrolyte used in Lead-acid battery is dilute Sulphuric acid

C:-During charging, Carbon Monoxide gas is liberated

D:-Chemical action takes place according to Faraday's Law

Correct Answer:- Option-C

Question94:-Which component differentiate Offline UPS from Online UPS ?

A:-Battery bank

B:-Transfer Switch

C:-Inverter

D:-Rectifier

Correct Answer:- Option-B

Question95:-The time duration for a UPS having Battery capacity 12V, 80 Ah which is connected to a load of 200 watts is

A:-13.3 Hrs

B:-0.2 Hrs

C:-30 Hrs

D:-4.8 Hrs

Correct Answer:- Option-D

Question96:-A typical glass Optical fiber is about \_\_\_\_\_ in diameter

A:-25-50  $\mu\text{m}$

B:-50-100  $\mu\text{m}$

C:-100-250  $\mu\text{m}$

D:-250-500  $\mu\text{m}$

Correct Answer:- Option-D

Question97:-\_\_\_\_\_ fibers are ideally suited for high bandwidth very long-haul using laser sources

A:-Multi-mode grade Index

B:-Multi mode step index

C:-Single mode

D:-Co-axial

Correct Answer:- Option-C

Question98:-In Optical fiber communication LED source can be modulated upto a frequency of

A:-100 MHZ

B:-10 MHZ

C:-1 GHZ

D:-100 GHZ

Correct Answer:- Option-A

Question99:-The number of signals transition per second is called \_\_\_\_\_ which is characteristics of communication system

A:-Frequency

B:-Baud rate

C:-Wave length

D:-Bit rate

Correct Answer:- Option-B

Question100:-The dispersion is produced by the properties of the

A:-Core material

B:-Line width of the light passing through fiber

C:-Core diameter

D:-Both (A and B)

Correct Answer:- Option-D