

DRDO CEPTAM Tier II 15th Jun 2026

Participant ID	
Participant Name	
Test Center Name	
Test Date	15/06/2026
Test Time	9:00 AM - 11:20 AM
Subject	Tech A Electronics

Section : Part II Section A

Q.1 How many depletion layers are present in a transistor?

- Ans ☒ A. 2
- ☒ B. 1
- ☒ C. 3
- ☒ D. 4

Question ID : 149550969

Option 1 ID : 1495503876

Option 2 ID : 1495503875

Option 3 ID : 1495503874

Option 4 ID : 1495503873

Status : Answered

Chosen Option : B

Q.2 In a three-pin IC voltage regulator, the capacitor connected at the output is used to:

- (i) Bypass transients produced during switching ON or OFF,
(ii) Remove ripple from the output,
(iii) Prevent oscillations due to load inductance.

- Ans ☒ A. All the three are correct
- ☒ B. Only (iii) is correct
- ☒ C. Only (ii) is correct
- ☒ D. Only (i) is correct

Question ID : 149550981

Option 1 ID : 1495503924

Option 2 ID : 1495503923

Option 3 ID : 1495503922

Option 4 ID : 1495503921

Status : Answered

Chosen Option : C

Q.3 Which of the following is not true about safety signs?

- Ans
- ☒ A. The shape of the prohibition signs is circular
 - ☒ B. The shape of the information signs is square or oblong
 - ☒ C. The shape of the mandatory signs is rectangle
 - ☒ D. The shape of the warning signs is triangular

Question ID : 149550967

Option 1 ID : 1495503865

Option 2 ID : 1495503866

Option 3 ID : 1495503868

Option 4 ID : 1495503867

Status : Answered

Chosen Option : C

Q.4 Which characteristic best describes a thermistor used for temperature sensing?

- Ans
- ☒ A. It produces voltage directly from heat
 - ☒ B. It measures pressure changes
 - ☒ C. Its resistance changes significantly with temperature
 - ☒ D. Its resistance remains constant with temperature

Question ID : 149550998

Option 1 ID : 1495503991

Option 2 ID : 1495503992

Option 3 ID : 1495503990

Option 4 ID : 1495503989

Status : Answered

Chosen Option : C

Q.5 An induction cup relay operates due to the interaction of:

- Ans
- ☒ A. Frequency only
 - ☒ B. Both current and voltage
 - ☒ C. Voltage only
 - ☒ D. Current only

Question ID : 149550990

Option 1 ID : 1495503960

Option 2 ID : 1495503959

Option 3 ID : 1495503958

Option 4 ID : 1495503957

Status : Answered

Chosen Option : B

Q.6 In the transistor code BC149, what does the letter "B" indicate?

- Ans ☒ A. Germanium
☒ B. Silicon
☒ C. Indium phosphide
☒ D. Gallium arsenide

Question ID : 149550970

Option 1 ID : 1495503877

Option 2 ID : 1495503878

Option 3 ID : 1495503880

Option 4 ID : 1495503879

Status : Answered

Chosen Option : B

Q.7 Which mode of the IC 555 timer is used to generate a continuous square wave without any external triggering?

- Ans ☒ A. Monostable mode
☒ B. Linear mode
☒ C. Bistable mode
☒ D. Astable mode

Question ID : 149550983

Option 1 ID : 1495503929

Option 2 ID : 1495503932

Option 3 ID : 1495503930

Option 4 ID : 1495503931

Status : Answered

Chosen Option : D

Q.8 The coil of a DC shunt relay generally consists of:

- Ans ☒ A. Many turns of thick wire
☒ B. Many turns of thin wire
☒ C. Few turns of thick wire
☒ D. Few turns of thin wire

Question ID : 149550989

Option 1 ID : 1495503956

Option 2 ID : 1495503955

Option 3 ID : 1495503954

Option 4 ID : 1495503953

Status : Answered

Chosen Option : C

Q.9 DIAC can be triggered during which part of the AC supply cycle?

- Ans
- ☐ A. Only when DC supply is applied
 - ☐ B. Only during the positive half-cycle
 - ☐ C. Only during the negative half-cycle
 - ☒ D. During both positive and negative half-cycles

Question ID : 149550988

Option 1 ID : 1495503952

Option 2 ID : 1495503951

Option 3 ID : 1495503950

Option 4 ID : 1495503949

Status : Answered

Chosen Option : D

Q.10 A MOSFET uses the electric field of the gate to control the channel current through a:

- Ans
- ☐ A. Transformer
 - ☒ B. Capacitor
 - ☐ C. Generator
 - ☐ D. Battery

Question ID : 149550984

Option 1 ID : 1495503936

Option 2 ID : 1495503933

Option 3 ID : 1495503935

Option 4 ID : 1495503934

Status : Answered

Chosen Option : D

Q.11 Which metal will cause a large deflection in an inductive proximity sensor?

- Ans
- ☒ A. Iron
 - ☐ B. Aluminium
 - ☐ C. Copper
 - ☐ D. Lead

Question ID : 1495501004

Option 1 ID : 1495504015

Option 2 ID : 1495504014

Option 3 ID : 1495504016

Option 4 ID : 1495504013

Status : Answered

Chosen Option : C

Q.12 What does a load cell measure?

- Ans
- ☐ A. Pressure
 - ☐ B. Voltage
 - ☒ C. Weight or force
 - ☐ D. Temperature

Question ID : 1495501000

Option 1 ID : 1495503998

Option 2 ID : 1495504000

Option 3 ID : 1495503999

Option 4 ID : 1495503997

Status : Answered

Chosen Option : C

Q.13 What is the commercial name of the flux used for soldering aluminium conductors?

- Ans
- ☒ A. ALCA-P
 - ☐ B. Eyre No. 7
 - ☐ C. Quick Fix
 - ☐ D. Baker's fluid

Question ID : 149550977

Option 1 ID : 1495503907

Option 2 ID : 1495503906

Option 3 ID : 1495503905

Option 4 ID : 1495503908

Status : Answered

Chosen Option : B

Q.14 In a typical load cell, strain gauges are connected in which circuit configuration to increase sensitivity and provide temperature compensation?

- Ans
- ☐ A. Series circuit
 - ☐ B. Parallel circuit
 - ☐ C. LC circuit
 - ☒ D. Wheatstone bridge circuit

Question ID : 1495501002

Option 1 ID : 1495504005

Option 2 ID : 1495504006

Option 3 ID : 1495504008

Option 4 ID : 1495504007

Status : Answered

Chosen Option : D

Q.15 Which of the following is used to limit short circuit current in a power system?

- Ans ☐ A. Isolators
☒ B. Reactors
☐ C. Earth wires
☐ D. HRC fuses

Question ID : 149550992

Option 1 ID : 1495503966

Option 2 ID : 1495503968

Option 3 ID : 1495503965

Option 4 ID : 1495503967

Status : Answered

Chosen Option : C

Q.16 Which type of sensor identifies a substance directly by its unique spectral characteristics?

- Ans ☐ A. Chemical sensor
☐ B. Thermal sensor
☐ C. Light sensor
☒ D. Spectroscopic sensor

Question ID : 1495501005

Option 1 ID : 1495504017

Option 2 ID : 1495504018

Option 3 ID : 1495504019

Option 4 ID : 1495504020

Status : Answered

Chosen Option : C

Q.17 In a DC series motor, if torque is doubled, the armature current must increase by what percentage?

- Ans ☐ A. 75.1%
☒ B. 41.4%
☐ C. 100%
☐ D. 25.2%

Question ID : 149550973

Option 1 ID : 1495503890

Option 2 ID : 1495503892

Option 3 ID : 1495503889

Option 4 ID : 1495503891

Status : Not Answered

Chosen Option : --

Q.18 The operation of a phototransistor can be considered as a combination of which of the following devices?

- Ans ☐ A. Zener diode and Rectifier diode
☐ B. BJT and Laser diode
☒ C. Photodiode and Bipolar Junction Transistor (BJT)
☐ D. Solar cell and LED

Question ID : 149550997

Option 1 ID : 1495503988

Option 2 ID : 1495503987

Option 3 ID : 1495503985

Option 4 ID : 1495503986

Status : Answered

Chosen Option : C

Q.19 Which type of fault current is generally used to determine the rating of a circuit breaker?

- Ans ☒ A. Symmetrical fault current
☐ B. Double line-to-ground fault current
☐ C. Line-to-line fault current
☐ D. Single line-to-ground fault current

Question ID : 149550993

Option 1 ID : 1495503970

Option 2 ID : 1495503972

Option 3 ID : 1495503969

Option 4 ID : 1495503971

Status : Answered

Chosen Option : C

Q.20 The V-I characteristics of a TRIAC in the first and third quadrants are essentially similar to those of a/an _____ in the first quadrant.

- Ans ☐ A. Diode
☐ B. Transistor
☒ C. SCR
☐ D. UJT

Question ID : 149550987

Option 1 ID : 1495503948

Option 2 ID : 1495503945

Option 3 ID : 1495503946

Option 4 ID : 1495503947

Status : Not Answered

Chosen Option : --

Q.21 The process of extinguishing fire by cutting the supply of oxygen or by using a blanket, sand, etc., is called

- Ans
- ☐ A. Cooling
 - ☐ B. Quenching
 - ☒ C. Smothering
 - ☐ D. Starvation

Question ID : 149550966

Option 1 ID : 1495503861

Option 2 ID : 1495503864

Option 3 ID : 1495503862

Option 4 ID : 1495503863

Status : Answered

Chosen Option : C

Q.22 Which of the following statements are true for an LVDT (Linear Variable Differential Transformer):

- (i) It exhibits linear characteristics up to a certain displacement,
- (ii) It has a linearity of 0.05%,
- (iii) It has infinite resolution and high sensitivity

- Ans
- ☐ A. Only (ii) is true
 - ☒ B. All three (i), (ii), and (iii) are true
 - ☐ C. Only (i) is true
 - ☐ D. Only (iii) is true

Question ID : 1495501003

Option 1 ID : 1495504010

Option 2 ID : 1495504012

Option 3 ID : 1495504009

Option 4 ID : 1495504011

Status : Answered

Chosen Option : B

Q.23 For which type of load, a freewheeling diode is essential in a controlled rectifier circuit?

- Ans
- ☒ A. Inductive load
 - ☐ B. Purely resistive load
 - ☐ C. Purely capacitive load
 - ☐ D. Both resistive and inductive

Question ID : 149550980

Option 1 ID : 1495503918

Option 2 ID : 1495503917

Option 3 ID : 1495503919

Option 4 ID : 1495503920

Status : Answered

Chosen Option : A

Q.24 What property of a strain gauge changes when mechanical strain is applied?

- Ans ☐ A. Capacitance
☒ B. Electrical resistance
☐ C. Inductance
☐ D. Frequency

Question ID : 1495501001

Option 1 ID : 1495504001

Option 2 ID : 1495504003

Option 3 ID : 1495504002

Option 4 ID : 1495504004

Status : Answered

Chosen Option : B

Q.25 A coil consists of 750 turns. When a current of 10 A flows through the coil, it produces a magnetic flux of 1200 μ Wb. What is the inductance of the coil?

- Ans ☐ A. 0.05 H
☐ B. 0.009 H
☐ C. 0.07 H
☒ D. 0.09 H

Question ID : 149550972

Option 1 ID : 1495503885

Option 2 ID : 1495503888

Option 3 ID : 1495503886

Option 4 ID : 1495503887

Status : Not Answered

Chosen Option : --

Q.26 All solid-state relays develop heat as a result of a forward voltage drop through the junction of the die. What is the rate of temperature (in $^{\circ}$ C) per amp that is being switched?

- Ans ☐ A. Approximately 0.2° C
☐ B. Approximately 2.2° C
☐ C. Approximately 3.2° C
☒ D. Approximately 1.2° C

Question ID : 149550991

Option 1 ID : 1495503961

Option 2 ID : 1495503963

Option 3 ID : 1495503964

Option 4 ID : 1495503962

Status : Answered

Chosen Option : C

Q.27 What is the maximum drain-source voltage (VDS) for a general-purpose FET BF245B?

- Ans ☒ A. 30 V
☐ B. 36 V
☐ C. 24 V
☐ D. 18 V

Question ID : 149550985

Option 1 ID : 1495503939

Option 2 ID : 1495503940

Option 3 ID : 1495503938

Option 4 ID : 1495503937

Status : Answered

Chosen Option : B

Q.28 The intrinsic standoff ratio (η) of a UJT is given by

- Ans ☒ A. $RB_1 / (RB_1 + RB_2)$
☐ B. $(RB_1 + RB_2) / RB_1$
☐ C. $RB_1 + RB_2$
☐ D. $(RB_1 + RB_2) / RB_2$

Question ID : 149550994

Option 1 ID : 1495503975

Option 2 ID : 1495503974

Option 3 ID : 1495503973

Option 4 ID : 1495503976

Status : Not Answered

Chosen Option : --

Q.29 Which component in a DC power supply is used to reduce ripples?

- Ans ☐ A. Voltage regulator
☐ B. Rectifier
☐ C. Transformer
☒ D. Capacitor

Question ID : 149550979

Option 1 ID : 1495503916

Option 2 ID : 1495503914

Option 3 ID : 1495503913

Option 4 ID : 1495503915

Status : Answered

Chosen Option : D

Q.30 Which of the following semiconductor devices is used as a light sensor?

- Ans ☐ A. Transistor
☒ B. Photodiode
☐ C. Diode
☐ D. Zener diode

Question ID : 149550996

Option 1 ID : 1495503982

Option 2 ID : 1495503984

Option 3 ID : 1495503981

Option 4 ID : 1495503983

Status : Answered

Chosen Option : B

Q.31 Which of the following are two important specifications of a diode?

- Ans ☐ A. Peak Inverse Voltage (PIV) and saturation current
☒ B. Peak Inverse Voltage (PIV) and forward current
☐ C. Saturation current and forward current
☐ D. Breakdown current and saturation current

Question ID : 149550971

Option 1 ID : 1495503883

Option 2 ID : 1495503884

Option 3 ID : 1495503882

Option 4 ID : 1495503881

Status : Answered

Chosen Option : C

Q.32 In the emitter characteristic of a UJT, the region between the peak point and valley point is known as the _____ region.

- Ans ☐ A. Saturation region
☐ B. Cut-off region
☐ C. Active region
☒ D. Negative resistance region

Question ID : 149550995

Option 1 ID : 1495503977

Option 2 ID : 1495503978

Option 3 ID : 1495503980

Option 4 ID : 1495503979

Status : Answered

Chosen Option : C

Q.33 What does the sensitivity of a measuring instrument indicate?

- Ans ☐ A. The maximum value of a physical quantity that can be measured
- ☒ B. The smallest amount of a physical quantity that can be detected by the instrument
- ☐ C. The minimum reading of the scale
- ☐ D. The highest reading of the scale

Question ID : 149550968

Option 1 ID : 1495503869

Option 2 ID : 1495503872

Option 3 ID : 1495503871

Option 4 ID : 1495503870

Status : Answered

Chosen Option : B

Q.34 All-day efficiency is used to evaluate the performance of which type of transformer?

- Ans ☐ A. Auto
- ☐ B. Two winding
- ☒ C. Distribution
- ☐ D. Power

Question ID : 149550974

Option 1 ID : 1495503894

Option 2 ID : 1495503896

Option 3 ID : 1495503893

Option 4 ID : 1495503895

Status : Answered

Chosen Option : A

Q.35 The current in chemical cell is due to the movement of:

- Ans ☒ A. Positive and negative Ions
- ☐ B. Positive Ions only
- ☐ C. Positive hole charge
- ☐ D. Negative Ions only

Question ID : 149550975

Option 1 ID : 1495503898

Option 2 ID : 1495503899

Option 3 ID : 1495503897

Option 4 ID : 1495503900

Status : Answered

Chosen Option : A

Q.36 The input stage of an operational amplifier (OP-AMP) is usually a:

- Ans ☐ A. Class B push-pull amplifier
☐ B. Common emitter (CE) amplifier
☐ C. Swamped amplifier
☒ D. Differential amplifier

Question ID : 149550982

Option 1 ID : 1495503926

Option 2 ID : 1495503927

Option 3 ID : 1495503928

Option 4 ID : 1495503925

Status : Answered

Chosen Option : A

Q.37 Consider the following statements about a lead-acid cell. Identify the correct statements:

- (i) In discharge mode, the EMF is 1.8 V,
(ii) Gas is released during charging,
(iii) When fully charged, it gives an EMF of 2.2 V.

- Ans ☐ A. Either (i) or (ii)
☒ B. (ii) and (iii)
☐ C. (i) and (iii)
☐ D. (i) and (ii)

Question ID : 149550976

Option 1 ID : 1495503904

Option 2 ID : 1495503902

Option 3 ID : 1495503903

Option 4 ID : 1495503901

Status : Answered

Chosen Option : B

Q.38 In an SCR circuit, the conduction angle can be controlled by:

- Ans ☐ A. Reverse biasing the gate
☐ B. Changing the anode voltage
☐ C. Changing the load resistance
☒ D. Changing the gate voltage

Question ID : 149550986

Option 1 ID : 1495503943

Option 2 ID : 1495503941

Option 3 ID : 1495503944

Option 4 ID : 1495503942

Status : Answered

Chosen Option : D

Q.39 A solder containing 52.54% lead, 45.21 – 45.71% tin, and about 2.25% zinc is used for soldering:

- Ans
- ☐ A. Copper wire joints
 - ☐ B. Brass wire joints
 - ☒ C. Aluminium cable joints
 - ☐ D. Joints of any metal wires

Question ID : 149550978

Option 1 ID : 1495503911

Option 2 ID : 1495503910

Option 3 ID : 1495503909

Option 4 ID : 1495503912

Status : Answered

Chosen Option : B

Q.40 A thermocouple works on which of the following principles?

- Ans
- ☐ A. Hall Effect
 - ☐ B. Ohm's Law
 - ☐ C. Faraday's Law
 - ☒ D. Seebeck Effect

Question ID : 149550999

Option 1 ID : 1495503994

Option 2 ID : 1495503993

Option 3 ID : 1495503996

Option 4 ID : 1495503995

Status : Answered

Chosen Option : D

Section : Part II Section B

Q.1 Which connector is commonly used with Ethernet LAN cables?

- Ans
- ☒ A. RJ45
 - ☐ B. VGA
 - ☐ C. HDMI
 - ☐ D. USB

Question ID : 1495501024

Option 1 ID : 1495504095

Option 2 ID : 1495504096

Option 3 ID : 1495504094

Option 4 ID : 1495504093

Status : Answered

Chosen Option : A

Q.2 High-frequency long-distance radio wave propagation mostly depends on which of the following?

- Ans
- ☐ A. Inverted reflection
 - ☐ B. Ground reflection
 - ☒ C. Ionospheric reflection
 - ☐ D. Tropospheric reflection

Question ID : 1495501008

Option 1 ID : 1495504031

Option 2 ID : 1495504029

Option 3 ID : 1495504032

Option 4 ID : 1495504030

Status : Answered

Chosen Option : C

Q.3 Which coupling method is best suited for amplifying very low-frequency or DC signals?

- Ans
- ☐ A. RC Coupling
 - ☒ B. Direct Coupling
 - ☐ C. Inductive Coupling
 - ☐ D. Transformer Coupling

Question ID : 1495501033

Option 1 ID : 1495504130

Option 2 ID : 1495504131

Option 3 ID : 1495504132

Option 4 ID : 1495504129

Status : Answered

Chosen Option : A

Q.4 Which coupling method is most commonly used in audio frequency amplifier circuits?

- Ans
- ☐ A. Direct Coupling
 - ☒ B. RC Coupling
 - ☐ C. Inductive Coupling
 - ☐ D. Transformer Coupling

Question ID : 1495501031

Option 1 ID : 1495504123

Option 2 ID : 1495504122

Option 3 ID : 1495504124

Option 4 ID : 1495504121

Status : Answered

Chosen Option : B

Q.5 In Frequency Modulation (FM), the amplitude of the modulating signal affects which characteristic of the carrier wave?

- Ans
- ☐ A. Amplitude and frequency of the carrier wave
 - ☐ B. Amplitude and phase of the carrier wave
 - ☐ C. Amplitude of the carrier wave only
 - ☒ D. Frequency of the carrier wave only

Question ID : 1495501012

Option 1 ID : 1495504045

Option 2 ID : 1495504046

Option 3 ID : 1495504047

Option 4 ID : 1495504048

Status : Answered

Chosen Option : B

Q.6 When operating a standard Common Emitter (CE) amplifier configuration, what is the expected phase relationship between the AC input signal applied to the Base and the AC output signal taken from the Collector?

- Ans
- ☐ A. The phase difference depends entirely on the coupling capacitors used
 - ☐ B. The output signal is shifted by 90 degree (in quadrature)
 - ☒ C. The output signal is 180 degree Out-of-Phase (phase inversion) relative to the input
 - ☐ D. The input and output signals are perfectly In-Phase (0 degree phase shift)

Question ID : 1495501039

Option 1 ID : 1495504156

Option 2 ID : 1495504154

Option 3 ID : 1495504155

Option 4 ID : 1495504153

Status : Not Answered

Chosen Option : --

Q.7 Which of the following indicates the number of input bits on which the current output depends?

- Ans
- ☒ A. Constraint length
 - ☐ B. Search window
 - ☐ C. Information rate
 - ☐ D. Code length

Question ID : 1495501020

Option 1 ID : 1495504078

Option 2 ID : 1495504080

Option 3 ID : 1495504079

Option 4 ID : 1495504077

Status : Answered

Chosen Option : D

Q.8 Which of the following faults may cause whistling and squawking sounds in a radio receiver:

- (i) Misalignment of RF or IF stages,
- (ii) Mismatch of IFTs,
- (iii) Loose earthing of IFT shields.

Ans ☒ A. All the three (i, ii and iii) are correct

☐ B. Only (i and iii) are correct

☐ C. Only (i and ii) are correct

☐ D. Only (ii and iii) are correct

Question ID : 1495501017

Option 1 ID : 1495504068

Option 2 ID : 1495504066

Option 3 ID : 1495504065

Option 4 ID : 1495504067

Status : Answered

Chosen Option : A

Q.9 The print quality of a printer is measured in which of the following units?

Ans ☒ A. Dots per inch

☐ B. Dots per square inch

☐ C. Dots per page

☐ D. Dots printed per unit time

Question ID : 1495501022

Option 1 ID : 1495504085

Option 2 ID : 1495504086

Option 3 ID : 1495504088

Option 4 ID : 1495504087

Status : Answered

Chosen Option : B

Q.10 Which of the following is not a type of feedback?

Ans ☐ A. Degenerative

☒ B. Single

☐ C. Negative

☐ D. Regenerative

Question ID : 1495501040

Option 1 ID : 1495504158

Option 2 ID : 1495504160

Option 3 ID : 1495504157

Option 4 ID : 1495504159

Status : Answered

Chosen Option : B

Q.11 The parameter Alpha is fundamentally defined by the current gain of which individual component often found inside an Op-Amp?

- Ans
- ☐ A. Internal voltage-controlled current source (VCO) of the Op-Amp
 - ☐ B. Output transistor used in the push-pull stage
 - ☐ C. Feedback resistor (R_f) connected to the inverting input
 - ☒ D. Bipolar Junction Transistor (BJT) in a Common-Base configuration

Question ID : 1495501037

Option 1 ID : 1495504148

Option 2 ID : 1495504147

Option 3 ID : 1495504146

Option 4 ID : 1495504145

Status : Answered

Chosen Option : A

Q.12 What is the primary function of a transistor when used in its active region (linear operating mode) in an electronic circuit?

- Ans
- ☐ A. To act as a fast, high-power switch to turn circuits ON and OFF
 - ☐ B. To regulate the DC supply voltage to a constant value
 - ☒ C. To amplify a small input signal (current or voltage) into a larger output signal
 - ☐ D. To store charge and smooth out voltage ripples

Question ID : 1495501038

Option 1 ID : 1495504152

Option 2 ID : 1495504149

Option 3 ID : 1495504151

Option 4 ID : 1495504150

Status : Answered

Chosen Option : A

Q.13 What is a major disadvantage of transformer coupling in transistor amplifiers?

- Ans
- ☐ A. Higher output power gain
 - ☐ B. High power consumption
 - ☐ C. Poor impedance matching
 - ☒ D. Bulky components

Question ID : 1495501032

Option 1 ID : 1495504126

Option 2 ID : 1495504128

Option 3 ID : 1495504125

Option 4 ID : 1495504127

Status : Answered

Chosen Option : D

Q.14 Which symbol is used to indicate the current gain ?

- Ans
- ☒ A. ϵ
 - ☒ B. Ω
 - ☒ C. β
 - ☒ D. μ

Question ID : 1495501035

Option 1 ID : 1495504139

Option 2 ID : 1495504138

Option 3 ID : 1495504140

Option 4 ID : 1495504137

Status : Answered

Chosen Option : C

Q.15 The percentage of modulation reaches 100% when the amplitude of the signal and carrier waves are:

- Ans
- ☒ A. Equal to each other
 - ☒ B. Zero
 - ☒ C. Opposite to each other
 - ☒ D. Maximum

Question ID : 1495501013

Option 1 ID : 1495504050

Option 2 ID : 1495504051

Option 3 ID : 1495504049

Option 4 ID : 1495504052

Status : Answered

Chosen Option : A

Q.16 The information carrying capacity of an optical fibre system is around

- Ans
- ☒ A. 1400M bit/sec
 - ☒ B. 140M bit/sec
 - ☒ C. 1.4M bit/sec
 - ☒ D. 14M bit/sec

Question ID : 1495501011

Option 1 ID : 1495504044

Option 2 ID : 1495504043

Option 3 ID : 1495504041

Option 4 ID : 1495504042

Status : Answered

Chosen Option : A

Q.17 A multi-mode step-index optical fibre has which of the following characteristics?

- Ans
- ☐ A. Small core diameter and large numerical aperture
 - ☐ B. Small core diameter and small numerical aperture
 - ☐ C. Large core diameter and small numerical aperture
 - ☒ D. Large core diameter and large numerical aperture

Question ID : 1495501010

Option 1 ID : 1495504039

Option 2 ID : 1495504040

Option 3 ID : 1495504038

Option 4 ID : 1495504037

Status : Answered

Chosen Option : A

Q.18 In RC coupling, what role does the capacitor play between transistor stages?

- Ans
- ☐ A. Matches impedance
 - ☐ B. Provides biasing
 - ☒ C. Blocks DC and passes AC signals
 - ☐ D. Amplifies the signal

Question ID : 1495501034

Option 1 ID : 1495504135

Option 2 ID : 1495504133

Option 3 ID : 1495504134

Option 4 ID : 1495504136

Status : Answered

Chosen Option : C

Q.19 In which transistor configuration, the output resistance is less than 100 ohms?

- Ans
- ☒ A. Common Collector (CC)
 - ☐ B. Common Base (CB)
 - ☐ C. Voltage Divider
 - ☐ D. Common Emitter (CE)

Question ID : 1495501029

Option 1 ID : 1495504113

Option 2 ID : 1495504114

Option 3 ID : 1495504116

Option 4 ID : 1495504115

Status : Answered

Chosen Option : D

Q.20 Which of the following phenomena occurs when radio waves travel along two or more paths, causing slowly changing phase differences between the signals?

- Ans ☐ A. Baffling
☒ B. Fading
☐ C. Skipping
☐ D. Absorption

Question ID : 1495501007

Option 1 ID : 1495504027

Option 2 ID : 1495504026

Option 3 ID : 1495504025

Option 4 ID : 1495504028

Status : Answered

Chosen Option : B

Q.21 In which transistor configuration, the output is taken across collector & emitter?

- Ans ☐ A. Common Collector (CC)
☐ B. Voltage Divider
☐ C. Common Base (CB)
☒ D. Common Emitter (CE)

Question ID : 1495501028

Option 1 ID : 1495504109

Option 2 ID : 1495504112

Option 3 ID : 1495504111

Option 4 ID : 1495504110

Status : Answered

Chosen Option : D

Q.22 If a mechanic fails to align the IF stage of a radio receiver, what could be the possible cause among these three:

- (i) Ferrite cores of the IFTs are broken or jammed,
(ii) IFT winding is open,
(iii) IF amplifier circuit is not passing the IF signal

- Ans ☐ A. Only (ii) is the possible cause
☒ B. Any one of the three (i or ii or iii) is the possible cause
☐ C. Only (i) is the possible cause
☐ D. Only (iii) is the possible cause

Question ID : 1495501016

Option 1 ID : 1495504062

Option 2 ID : 1495504064

Option 3 ID : 1495504061

Option 4 ID : 1495504063

Status : Answered

Chosen Option : B

Q.23 If $R = 10K\ \Omega$, $C = 0.01\mu F$, the monostable output pulse width will be ?

- Ans
- ☐ A. 0.22 ms
 - ☐ B. 1.1 ms
 - ☒ C. 0.11 ms
 - ☐ D. 11 ms

Question ID : 1495501044
Option 1 ID : 1495504174
Option 2 ID : 1495504175
Option 3 ID : 1495504173
Option 4 ID : 1495504176
Status : Not Answered
Chosen Option : --

Q.24 Which type of cable uses BNC connectors commonly in communication systems?

- Ans
- ☐ A. Twisted Pair cable
 - ☐ B. Ribbon cable
 - ☒ C. Coaxial Cable
 - ☐ D. Optical Fiber cable

Question ID : 1495501025
Option 1 ID : 1495504097
Option 2 ID : 1495504100
Option 3 ID : 1495504098
Option 4 ID : 1495504099
Status : Answered
Chosen Option : D

Q.25 Which transmission medium is best suited for short-distance, low-cost LAN installations with moderate bandwidth requirements?

- Ans
- ☒ A. Twisted pair cable
 - ☐ B. Satellite communication
 - ☐ C. Multimode fiber
 - ☐ D. Single-mode fiber

Question ID : 1495501026
Option 1 ID : 1495504103
Option 2 ID : 1495504104
Option 3 ID : 1495504102
Option 4 ID : 1495504101
Status : Answered
Chosen Option : D

Q.26 In which of the following communication systems are all signals, including voice signals, transmitted and received in digitized form?

- Ans ☐ A. FDMA only
☒ B. CDMA and GSM
☐ C. GSM only
☐ D. CDMA only

Question ID : 1495501018

Option 1 ID : 1495504070

Option 2 ID : 1495504072

Option 3 ID : 1495504071

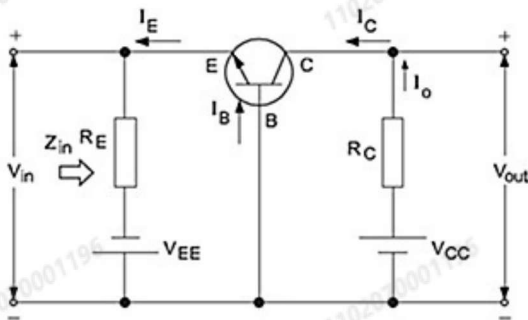
Option 4 ID : 1495504069

Status : Answered

Chosen Option : B

Q.27

Which transistor configuration is present in the image?



- Ans ☐ A. Common Emitter (CE)
☒ B. Common Base (CB)
☐ C. Voltage Divider
☐ D. Common Collector (CC)

Question ID : 1495501027

Option 1 ID : 1495504107

Option 2 ID : 1495504106

Option 3 ID : 1495504108

Option 4 ID : 1495504105

Status : Answered

Chosen Option : B

Q.28 Which of the following is used in an optical encoder to convert electrical (RF) signals into light signals?

- Ans
- ☐ A. PN Diode
 - ☐ B. Tunnel Diode
 - ☒ C. Laser Diode
 - ☐ D. Zener Diode

Question ID : 1495501009

Option 1 ID : 1495504034

Option 2 ID : 1495504036

Option 3 ID : 1495504035

Option 4 ID : 1495504033

Status : Answered

Chosen Option : C

Q.29 Which of the following is NOT a teleservice of GSM?

- Ans
- ☒ A. Packet-switched traffic
 - ☐ B. Standard mobile telephony
 - ☐ C. Fax
 - ☐ D. SMS

Question ID : 1495501019

Option 1 ID : 1495504076

Option 2 ID : 1495504073

Option 3 ID : 1495504075

Option 4 ID : 1495504074

Status : Answered

Chosen Option : C

Q.30 Which of the following is a built-in memory in a computer?

- Ans
- ☐ A. Erasable Programmable Read Only Memory
 - ☐ B. Random Access Memory
 - ☐ C. Programmable Read Only Memory
 - ☒ D. Read Only Memory

Question ID : 1495501021

Option 1 ID : 1495504084

Option 2 ID : 1495504081

Option 3 ID : 1495504083

Option 4 ID : 1495504082

Status : Answered

Chosen Option : A

Q.31 Which of the following is a major limitation of Amplitude Modulation (AM)?

- Ans ☒ A. It is difficult to detect
☒ B. It is sensitive to noise
☒ C. It is sensitive to frequency changes
☒ D. It is difficult to produce

Question ID : 1495501014

Option 1 ID : 1495504054

Option 2 ID : 1495504055

Option 3 ID : 1495504056

Option 4 ID : 1495504053

Status : Answered

Chosen Option : B

Q.32 What happens to an antenna's radiation angle when its height is increased?

- Ans ☒ A. It stays the same
☒ B. It decreases
☒ C. It increases
☒ D. It becomes zero

Question ID : 1495501006

Option 1 ID : 1495504023

Option 2 ID : 1495504021

Option 3 ID : 1495504022

Option 4 ID : 1495504024

Status : Answered

Chosen Option : C

Q.33 In a monostable multivibrator circuit, the time during which the output stays high is determined by----- time constant.

- Ans ☒ A. LCR
☒ B. LR
☒ C. LC
☒ D. RC

Question ID : 1495501043

Option 1 ID : 1495504170

Option 2 ID : 1495504172

Option 3 ID : 1495504169

Option 4 ID : 1495504171

Status : Answered

Chosen Option : D

Q.34 What is the purpose of an L-C tuned circuit in a radio receiver?

- Ans
- ☐ A. To convert audio frequency signals into sound
 - ☐ B. To capture incoming electromagnetic waves
 - ☐ C. To demodulate the received signal
 - ☒ D. To select the required radio frequency

Question ID : 1495501015

Option 1 ID : 1495504060

Option 2 ID : 1495504057

Option 3 ID : 1495504058

Option 4 ID : 1495504059

Status : Answered

Chosen Option : D

Q.35 Which is the most popular IC used for multivibrator circuit?

- Ans
- ☐ A. 324
 - ☐ B. 741
 - ☒ C. 555
 - ☐ D. 111

Question ID : 1495501042

Option 1 ID : 1495504168

Option 2 ID : 1495504167

Option 3 ID : 1495504165

Option 4 ID : 1495504166

Status : Answered

Chosen Option : C

Q.36 The sensitivity and movement resolution of a computer mouse are measured in which of the following units?

- Ans
- ☐ A. Bits per inch
 - ☐ B. Pages per inch
 - ☒ C. Dots per inch
 - ☐ D. Characters per inch

Question ID : 1495501023

Option 1 ID : 1495504089

Option 2 ID : 1495504092

Option 3 ID : 1495504090

Option 4 ID : 1495504091

Status : Answered

Chosen Option : A

Q.37 The internal architecture of the IC 555 Timer contains a voltage divider network made of three equal resistors connected in series between V_{CC} and GND. What is the reference voltage level that the lower comparator uses to initiate the timing cycle (Trigger threshold)?

- Ans
- ☒ A. $3(V_{CC}/2)$
 - ☒ B. $V_{CC}/3$
 - ☒ C. $2(V_{CC}/3)$
 - ☒ D. $V_{CC}/2$

Question ID : 1495501045

Option 1 ID : 1495504180

Option 2 ID : 1495504178

Option 3 ID : 1495504177

Option 4 ID : 1495504179

Status : Answered

Chosen Option : C

Q.38 Which transistor configuration, is used in high frequency applications?

- Ans
- ☒ A. Common Emitter (CE)
 - ☒ B. Voltage Divider
 - ☒ C. Common Base (CB)
 - ☒ D. Common Collector (CC)

Question ID : 1495501030

Option 1 ID : 1495504119

Option 2 ID : 1495504120

Option 3 ID : 1495504118

Option 4 ID : 1495504117

Status : Answered

Chosen Option : A

Q.39 In which transistor configuration, the voltage gain is high?

- Ans
- ☒ A. Common Emitter (CE)
 - ☒ B. Common Collector (CC)
 - ☒ C. Voltage Divider
 - ☒ D. Common Base (CB)

Question ID : 1495501036

Option 1 ID : 1495504143

Option 2 ID : 1495504141

Option 3 ID : 1495504144

Option 4 ID : 1495504142

Status : Answered

Chosen Option : A

Q.40 Which of the following describes the self-correcting action provided by the base resistor being connected from the Collector terminal back to the Base terminal in the Collector Feedback Biasing circuit?

- Ans ☒ A. Non-Inverting Voltage Feedback
☒ B. Inverting Voltage Feedback
☒ C. Fixed Current Biasing
☒ D. Thermal Runaway

Question ID : 1495501041

Option 1 ID : 1495504162

Option 2 ID : 1495504161

Option 3 ID : 1495504164

Option 4 ID : 1495504163

Status : Answered

Chosen Option : A

Section : Part II Section C

Q.1 In which circuit, the output can change only on the rising or falling edge of the clock?

- Ans ☒ A. Output triggered
☒ B. Input triggered
☒ C. Level triggered
☒ D. Edge triggered

Question ID : 1495501056

Option 1 ID : 1495504221

Option 2 ID : 1495504222

Option 3 ID : 1495504223

Option 4 ID : 1495504224

Status : Answered

Chosen Option : D

Q.2 How many stable states are present in a flip-flop ?

- Ans ☒ A. 4
☒ B. 1
☒ C. 3
☒ D. 2

Question ID : 1495501054

Option 1 ID : 1495504216

Option 2 ID : 1495504213

Option 3 ID : 1495504215

Option 4 ID : 1495504214

Status : Answered

Chosen Option : D

Q.3 What is the binary equivalent of the decimal number 10?

Ans ☒ A. 1010

☐ B. 1111

☐ C. 1001

☐ D. 1100

Question ID : 1495501047

Option 1 ID : 1495504186

Option 2 ID : 1495504185

Option 3 ID : 1495504188

Option 4 ID : 1495504187

Status : Answered

Chosen Option : A

Q.4 In 8051 assembly language, the instruction MOVC A, @A+DPTR is used to load the Accumulator (A) with a byte of data. Which memory space is this instruction specifically designed to read from?

Ans ☐ A. External Data RAM (XDATA)

☐ B. Internal Data RAM (IRAM)

☒ C. Program Memory (Code Space)

☐ D. Special Function Register space (SFR)

Question ID : 1495501068

Option 1 ID : 1495504270

Option 2 ID : 1495504269

Option 3 ID : 1495504271

Option 4 ID : 1495504272

Status : Answered

Chosen Option : C

Q.5 Which of the following is not a type of flip-flop?

Ans ☐ A. RS flip-flop

☐ B. D flip-flop

☐ C. JK flip-flop

☒ D. N flip-flop

Question ID : 1495501055

Option 1 ID : 1495504217

Option 2 ID : 1495504219

Option 3 ID : 1495504218

Option 4 ID : 1495504220

Status : Answered

Chosen Option : D

Q.6 Which of the following is not a type of LED Stacking?

- Ans
- ☒ A. Parallel
 - ☒ B. Diagonal
 - ☒ C. Series-Parallel
 - ☒ D. Series

Question ID : 1495501070

Option 1 ID : 1495504278

Option 2 ID : 1495504280

Option 3 ID : 1495504279

Option 4 ID : 1495504277

Status : Answered

Chosen Option : B

Q.7 Which of the following is not a type of LED drivers?

- Ans
- ☒ A. constant resistance
 - ☒ B. constant voltage
 - ☒ C. constant current
 - ☒ D. AC LED drivers

Question ID : 1495501071

Option 1 ID : 1495504283

Option 2 ID : 1495504282

Option 3 ID : 1495504281

Option 4 ID : 1495504284

Status : Answered

Chosen Option : A

Q.8 Most Fiber-to-the-Home (FTTH) deployments use a Passive Optical Network (PON) architecture. What is the fundamental distinction between a PON and an Active Optical Network (AON)?

- Ans
- ☒ A. PON requires an Optical Line Terminal (OLT) at the customer premise, while AON requires the OLT at the central office.
 - ☒ B. PON uses unpowered optical splitters while AON uses electrically powered switches
 - ☒ C. PON uses multi-mode fiber for faster speeds, while AON uses single-mode fiber for longer distances.
 - ☒ D. PON delivers video and data, while AON is limited to only data (Internet) services.

Question ID : 1495501085

Option 1 ID : 1495504337

Option 2 ID : 1495504340

Option 3 ID : 1495504339

Option 4 ID : 1495504338

Status : Not Answered

Chosen Option : --

Q.9 What is the primary function of the Low Noise Block (LNB) downconverter mounted on the satellite dish antenna in a Direct-to-Home (DTH) system?

- Ans ☐ A. To rotate the dish automatically to track multiple geostationary satellites.
- ☒ B. To amplify the satellite signal and convert its high-frequency signal to a lower frequency for transmission
- ☐ C. To decode the encrypted signal using a conditional access module.
- ☐ D. To separate the audio and video signals before sending them to the Set-Top Box (STB).

Question ID : 1495501084

Option 1 ID : 1495504336

Option 2 ID : 1495504333

Option 3 ID : 1495504335

Option 4 ID : 1495504334

Status : Answered

Chosen Option : B

Q.10 Which of the following is not a type of conventional energy source?

- Ans ☐ A. Petrol
- ☐ B. Wood
- ☐ C. Coal
- ☒ D. Solar

Question ID : 1495501074

Option 1 ID : 1495504295

Option 2 ID : 1495504296

Option 3 ID : 1495504293

Option 4 ID : 1495504294

Status : Answered

Chosen Option : D

Q.11 What remains constant in parallel connection of identical photo-voltaic cells?

- Ans ☐ A. Current
- ☐ B. Power
- ☐ C. Resistance
- ☒ D. Voltage

Question ID : 1495501078

Option 1 ID : 1495504309

Option 2 ID : 1495504312

Option 3 ID : 1495504311

Option 4 ID : 1495504310

Status : Answered

Chosen Option : D

Q.12 Which of the following is not a type of counter?

- Ans
- ☐ A. up counter
 - ☐ B. Asynchronous counter
 - ☒ C. data counter
 - ☐ D. down counter

Question ID : 1495501064

Option 1 ID : 1495504253

Option 2 ID : 1495504255

Option 3 ID : 1495504256

Option 4 ID : 1495504254

Status : Answered

Chosen Option : C

Q.13 Which of the following is not a type of coding system?

- Ans
- ☒ A. Purple Code
 - ☐ B. BCD
 - ☐ C. Gray Code
 - ☐ D. ASCII

Question ID : 1495501048

Option 1 ID : 1495504192

Option 2 ID : 1495504189

Option 3 ID : 1495504191

Option 4 ID : 1495504190

Status : Answered

Chosen Option : A

Q.14 Which feature of a modern CCTV camera allows it to produce clear, usable images in scenes that contain both extremely bright areas (like a window) and very dark areas (like a shaded corner) simultaneously?

- Ans
- ☒ A. Wide Dynamic Range (WDR)
 - ☐ B. Infrared (IR) Illumination
 - ☐ C. Power over Ethernet (PoE)
 - ☐ D. Digital Noise Reduction (DNR)

Question ID : 1495501083

Option 1 ID : 1495504329

Option 2 ID : 1495504332

Option 3 ID : 1495504331

Option 4 ID : 1495504330

Status : Answered

Chosen Option : B

Q.15 In SR flip-flop, if inputs S = 0 & R = 1 then output Q is equal to ?

- Ans ☒ A. x
☒ B. 0
☒ C. NC
☒ D. 1

Question ID : 1495501057

Option 1 ID : 1495504228

Option 2 ID : 1495504225

Option 3 ID : 1495504226

Option 4 ID : 1495504227

Status : Answered

Chosen Option : B

Q.16 What is the primary cause of acoustic feedback (the characteristic loud, high-pitched howling or squealing sound) in a Public Address (PA) system?

- Ans ☒ A. The microphone and loudspeaker are operating at different impedance levels.
☒ B. The amplifier is receiving a voltage spike from the mains power supply.
☒ C. Sound output from the loudspeaker is being captured by the microphone and re-amplified in a continuous loop.
☒ D. Excessive bass frequencies are set on the equalizer, overloading the amplifier.

Question ID : 1495501081

Option 1 ID : 1495504321

Option 2 ID : 1495504323

Option 3 ID : 1495504324

Option 4 ID : 1495504322

Status : Answered

Chosen Option : C

Q.17 Which circuit has multiple inputs and single output?

- Ans ☒ A. Demultiplexer
☒ B. Multiplexer
☒ C. Register
☒ D. flip-flop

Question ID : 1495501060

Option 1 ID : 1495504238

Option 2 ID : 1495504237

Option 3 ID : 1495504240

Option 4 ID : 1495504239

Status : Answered

Chosen Option : B

Q.18 How many select lines are present in a 1:8 demultiplexer

Ans ☒ A. 1

☒ B. 2

☒ C. 3

☒ D. 4

Question ID : 1495501061

Option 1 ID : 1495504241

Option 2 ID : 1495504242

Option 3 ID : 1495504243

Option 4 ID : 1495504244

Status : Answered

Chosen Option : C

Q.19 What is the full form of LED?

Ans ☒ A. light emitting diode

☒ B. light emergence diode

☒ C. LASER emitting diode

☒ D. light emitting device

Question ID : 1495501069

Option 1 ID : 1495504273

Option 2 ID : 1495504276

Option 3 ID : 1495504275

Option 4 ID : 1495504274

Status : Answered

Chosen Option : A

Q.20 Which of the following best describes the primary function of a register in digital electronics?

Ans ☒ A. To convert an analog signal into a digital signal.

☒ B. To perform arithmetic operations like addition and subtraction

☒ C. To temporarily store a group of related binary bits (a word).

☒ D. To regulate the power supply voltage for the circuit.

Question ID : 1495501058

Option 1 ID : 1495504231

Option 2 ID : 1495504229

Option 3 ID : 1495504230

Option 4 ID : 1495504232

Status : Answered

Chosen Option : C

Q.21 Which of the following is not a type of renewable energy system?

- Ans ☐ A. Solar space heating
- ☒ B. Petrol Generator
- ☐ C. Solar water heating
- ☐ D. Solar pool water heating

Question ID : 1495501073

Option 1 ID : 1495504289

Option 2 ID : 1495504291

Option 3 ID : 1495504290

Option 4 ID : 1495504292

Status : Answered

Chosen Option : B

Q.22 Which component in a basic Public Address (PA) system is responsible for converting the electrical audio signal back into audible sound waves?

- Ans ☐ A. Mixer
- ☒ B. Loudspeaker
- ☐ C. Equalizer
- ☐ D. Microphone

Question ID : 1495501080

Option 1 ID : 1495504317

Option 2 ID : 1495504318

Option 3 ID : 1495504320

Option 4 ID : 1495504319

Status : Answered

Chosen Option : B

Q.23 An asynchronous Modulo-12 counter is implemented using four flip-flops and a NAND gate to force the counter to recycle. The counter's last valid state is 1011. Which transient binary state must the NAND gate partially decode to generate the asynchronous clear signal (CLR) that forces the counter to recycle from 1011 back to 0000 on the twelfth clock pulse?

- Ans ☒ A. 1100
- ☐ B. 1110
- ☐ C. 1010
- ☐ D. 1111

Question ID : 1495501065

Option 1 ID : 1495504257

Option 2 ID : 1495504258

Option 3 ID : 1495504259

Option 4 ID : 1495504260

Status : Answered

Chosen Option : A

Q.24 What is the BCD equivalent of the decimal number 10?

- Ans ☒ A. 11001100
☒ B. 11001001
☒ C. 00010000
☒ D. 11111010

Question ID : 1495501049

Option 1 ID : 1495504195

Option 2 ID : 1495504196

Option 3 ID : 1495504193

Option 4 ID : 1495504194

Status : Answered

Chosen Option : D

Q.25 Which of the following is not a type of microcontroller?

- Ans ☒ A. 8051
☒ B. Atmega328
☒ C. 8085
☒ D. PIC

Question ID : 1495501067

Option 1 ID : 1495504265

Option 2 ID : 1495504267

Option 3 ID : 1495504268

Option 4 ID : 1495504266

Status : Answered

Chosen Option : C

Q.26

Which of the following logic gate has output equation $Y = \bar{A}.I + A.\bar{I}$, where A & I are inputs?

- Ans ☒ A. OR
☒ B. NOT
☒ C. EX-OR
☒ D. AND

Question ID : 1495501053

Option 1 ID : 1495504212

Option 2 ID : 1495504211

Option 3 ID : 1495504210

Option 4 ID : 1495504209

Status : Answered

Chosen Option : C

Q.27 Which of the following is not a type of number system?

- Ans ☒ A. Quadrilateral
☒ B. Decimal
☒ C. Octal
☒ D. Binary

Question ID : 1495501046

Option 1 ID : 1495504184

Option 2 ID : 1495504181

Option 3 ID : 1495504182

Option 4 ID : 1495504183

Status : Answered

Chosen Option : A

Q.28 8051 Microcontroller is a ____ bit controller?

- Ans ☒ A. 12
☒ B. 16
☒ C. 4
☒ D. 8

Question ID : 1495501066

Option 1 ID : 1495504262

Option 2 ID : 1495504263

Option 3 ID : 1495504261

Option 4 ID : 1495504264

Status : Answered

Chosen Option : D

Q.29 A Universal Shift Register (USR) is a register that can perform four main operations: Hold, Shift Right, Shift Left, and Parallel Load. To select one of these four operations, how many Select/Mode Control lines are minimally required?

- Ans ☒ A. 1 control line
☒ B. 2 control line
☒ C. 3 control line
☒ D. 4 control line

Question ID : 1495501059

Option 1 ID : 1495504233

Option 2 ID : 1495504234

Option 3 ID : 1495504235

Option 4 ID : 1495504236

Status : Answered

Chosen Option : B

Q.30 In what material, the atoms that make up the framework of the crystal are repeated in a very regular, orderly manner from layer to layer?

- Ans
- ☐ A. Amorphous
 - ☐ B. Polycrystalline
 - ☐ C. Multicrystalline
 - ☒ D. Single-crystalline

Question ID : 1495501079

Option 1 ID : 1495504316

Option 2 ID : 1495504315

Option 3 ID : 1495504314

Option 4 ID : 1495504313

Status : Answered

Chosen Option : A

Q.31 What is the main advantage of tubular lead acid batteries in solar systems?

- Ans
- ☐ A. Lightweight
 - ☐ B. Maintenance-free
 - ☒ C. Better deep discharge and longer life
 - ☐ D. Cheap but short life

Question ID : 1495501075

Option 1 ID : 1495504299

Option 2 ID : 1495504298

Option 3 ID : 1495504300

Option 4 ID : 1495504297

Status : Answered

Chosen Option : C

Q.32 Which of the following is not a type of logic gate?

- Ans
- ☒ A. DIV
 - ☐ B. OR
 - ☐ C. AND
 - ☐ D. NOT

Question ID : 1495501050

Option 1 ID : 1495504198

Option 2 ID : 1495504200

Option 3 ID : 1495504197

Option 4 ID : 1495504199

Status : Answered

Chosen Option : A

Q.33 Both inputs on an AND gate are HIGH. What is the output?

- Ans ☒ A. ZERO
☒ B. HIGH
☒ C. LOW
☒ D. UNKNOWN

Question ID : 1495501051

Option 1 ID : 1495504204

Option 2 ID : 1495504201

Option 3 ID : 1495504202

Option 4 ID : 1495504203

Status : Answered

Chosen Option : B

Q.34 Which of the following is not a type of photo-voltaic cell charger controller?

- Ans ☒ A. PAM (Pulse Amplitude Modulation)
☒ B. PWM(Pulse Width Modulation)
☒ C. MPPT(Maximum Power Point Tracking)
☒ D. 1 or 2 stage control

Question ID : 1495501077

Option 1 ID : 1495504307

Option 2 ID : 1495504306

Option 3 ID : 1495504308

Option 4 ID : 1495504305

Status : Answered

Chosen Option : A

Q.35 Which of the following is not the primary purpose of the Digital Video Recorder (DVR) or Network Video Recorder (NVR) in a CCTV surveillance system?

- Ans ☒ A. Store
☒ B. Process
☒ C. Encode
☒ D. Decode

Question ID : 1495501082

Option 1 ID : 1495504328

Option 2 ID : 1495504325

Option 3 ID : 1495504326

Option 4 ID : 1495504327

Status : Answered

Chosen Option : D

Q.36 To represent 0 (zero) on a 7 segment display which segment should be turned OFF ?

- Ans
- ☒ A. f
 - ☒ B. e
 - ☒ C. g
 - ☒ D. h

Question ID : 1495501063

Option 1 ID : 1495504250

Option 2 ID : 1495504249

Option 3 ID : 1495504251

Option 4 ID : 1495504252

Status : Answered

Chosen Option : C

Q.37 Which of the following logic gate is used as a parity checker?

- Ans
- ☒ A. AND
 - ☒ B. EX-OR
 - ☒ C. NOT
 - ☒ D. OR

Question ID : 1495501052

Option 1 ID : 1495504205

Option 2 ID : 1495504206

Option 3 ID : 1495504207

Option 4 ID : 1495504208

Status : Answered

Chosen Option : B

Q.38 What is the advantage of rechargeable dry cells?

- Ans
- ☒ A. It has higher internal resistance
 - ☒ B. Reused multiple times
 - ☒ C. EMF does not remain constant
 - ☒ D. Temperature Sensitivity

Question ID : 1495501076

Option 1 ID : 1495504302

Option 2 ID : 1495504303

Option 3 ID : 1495504301

Option 4 ID : 1495504304

Status : Answered

Chosen Option : B

Q.39 Which is a type of 7 segment display ?

- Ans
- ☐ A. Common Collector
 - ☐ B. Common Anode
 - ☒ C. Common Emitter
 - ☐ D. Common Base

Question ID : 1495501062

Option 1 ID : 1495504245

Option 2 ID : 1495504246

Option 3 ID : 1495504247

Option 4 ID : 1495504248

Status : Answered

Chosen Option : B

Q.40 Which of the following is not a factors to be considered to choose an LED driver?

- Ans
- ☒ A. Material
 - ☐ B. IP Rating
 - ☐ C. Max Wattage
 - ☐ D. Dimming

Question ID : 1495501072

Option 1 ID : 1495504288

Option 2 ID : 1495504287

Option 3 ID : 1495504285

Option 4 ID : 1495504286

Status : Answered

Chosen Option : D