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**UPPCL JE
27
November
2019 Shift 2**



Section : Technical_Electrical Engineering

Q.1 With the increase in cost of preventive maintenance, the breakdown maintenance cost will _____.

- Ans ☒ A. Decreases
☒ B. Increases at a faster rate
☒ C. No change
☒ D. Increases

Question ID : 8970323023
Status : Answered
Chosen Option : 1

Q.2 A room of dimensions $12\text{m} \times 16\text{m}$ is to be lighted by 24 lamps of uniform illumination of around 100 lm/m^2 . If the output of each lamp is around 1600 lumens, what will be the utilization factor of the room?

- Ans ☒ A. 0.4
☒ B. 0.6
☒ C. 0.45
☒ D. 0.5

Question ID : 8970323010
Status : Not Answered
Chosen Option : --

Q.3 The most commonly used material for preparing Over Head line insulators is _____.

- Ans ☒ A. Mica
☒ B. Asbestos
☒ C. PVC
☒ D. Porcelain

Question ID : 8970323021
Status : Answered
Chosen Option : 4

Q.4 Resistivity of platinum is:

- Ans ☒ A. 10.5 micro ohm cm
☒ B. 49 micro ohm cm

☒ C. 44 micro ohm cm

☒ D. 24 micro ohm cm

Question ID : 8970323138

Status : Not Answered

Chosen Option : --

Q.5 _____ is device of transformer which takes up expansion and contraction of oil.

Ans ☒ A. Buchholz's relay

☒ B. Bushing

☒ C. Conservator

☒ D. Breather

Question ID : 8970323116

Status : Answered

Chosen Option : 3

Q.6 For heavy loads, the relation between torque (T) and slip (S) in induction motor is given by _____.

Ans ☒ A. $T \propto \frac{S}{1-S}$

☒ B. $T \propto S$

☒ C. $T \propto (1-S)$

☒ D. $T \propto \frac{1}{S}$

Question ID : 8970323036

Status : Answered

Chosen Option : 2

Q.7 In PLC Programming, a retentive function is one that:

Ans ☒ A. Cannot be edited or deleted

☒ B. Is not reset after a power loss

☒ C. Default points to OFF State

☒ D. Default points to ON State

Question ID : 8970323043

Status : Not Answered

Chosen Option : --

Q.8 In cleat wiring, cleats shall be fixed at regular intervals not exceeding _____ meters.

Ans ☒ A. 0.7

☒ B. 0.4

☒ C. 0.5

☒ D. 0.6

Question ID : 8970323097

Status : Not Answered

Chosen Option : --

Q.9 The current rating of a fuse in a distribution system should not exceed _____.

- Ans
- ☐ A. The current rating of the highest cable in the circuit:
 - ☐ B. The average current rating of the circuit
 - ☒ C. The current rating of the smallest cable in the circuit
 - ☐ D. The total load of the circuit

Question ID : 8970323016

Status : Not Answered

Chosen Option : --

Q.10 उच्च वोल्टता लाइनों के लिए 1956 के भारतीय विद्युत नियम 77 (1) के अनुसार, "सड़क के पार किसी भी भाग में खड़ी की जाने वाली सर्विस लाइनों सहित, ओवरहेड लाइन की ऊंचाई _____ से कम नहीं होनी चाहिए।"

- Ans
- ☐ A. 5.795 meters
 - ☐ B. 5.185 meters
 - ☒ C. 6.10 meters
 - ☐ D. 4.575 meters

Question ID : 8970323015

Status : Not Answered

Chosen Option : --

Q.11 Air forced into the tower in mechanical draft cooling towers by using:

- Ans
- ☐ A. Spray nozzles
 - ☒ B. Propellers
 - ☐ C. Louvers
 - ☐ D. Deckings

Question ID : 8970323068

Status : Answered

Chosen Option : 1

Q.12 _____ maintenance is regular period planned maintenance which eliminates breakdowns and outages.

- Ans
- ☐ A. Routine
 - ☒ B. Preventive
 - ☐ C. Corrective
 - ☐ D. Operation

Question ID : 8970323024

Status : Answered

Chosen Option : 1

Q.13 In case of stator earth-fault protection of generator, the value of resistance necessary in the neutral circuit to prevent an overvoltage due to resonance is _____.

- Ans
- ☐ A. $R_n = \frac{10^5}{\pi f C} \Omega$
 - ☒ B. $R_n = \frac{10^6}{6\pi f C} \Omega$
 - ☐ C. $R_n = \frac{1}{6\pi f C} \Omega$

☒ D. $R_n = \frac{10^6}{6f} \Omega$

Question ID : 8970323055

Status : Not Answered

Chosen Option : --

Q.14 Switch mode power supply is used for:

Ans

- ☒ A. Obtaining controlled DC supply
☒ B. Switching over from one supply to another
☒ C. Obtaining AC voltage of low frequencies
☒ D. Obtaining AC voltage of high frequencies

Question ID : 8970323103

Status : Answered

Chosen Option : 1

Q.15 In thyrite lightning arrester, on doubling the voltage the current increases to ____.

Ans

- ☒ A. 4 times
☒ B. 12.6 times
☒ C. 2 times
☒ D. 6.6 times

Question ID : 8970323058

Status : Not Answered

Chosen Option : --

Q.16 In overhead transmission lines, the maximum length of span for RCC poles should be ____ meters.

Ans

- ☒ A. 200 - 400 meters
☒ B. 80 - 100 meters
☒ C. 30 - 70 meters
☒ D. 10 - 20 meters

Question ID : 8970323099

Status : Answered

Chosen Option : 2

Q.17 As per Indian Electricity rule in overhead systems, the recommended span in case of wooden poles is ____.

Ans

- ☒ A. 100-300 meters
☒ B. 40-50 meters
☒ C. 50-80 meters
☒ D. 80-100 meters

Question ID : 8970323072

Status : Answered

Chosen Option : 1

Q.18 A Bimetallic strip breaks the circuit when:

Ans



A. Resistance increases



B. Current rises above its setting value



C. Current decreases to zero



D. Voltage decreases

Question ID : 8970323134

Status : Answered

Chosen Option : 2

Q.19 Causes of electrical failure in rotating machines is due to ____.

Ans



A. Core cross-sectional area



B. Winding layer by layer



C. Increase in efficiency



D. Stator winding insulation failure

Question ID : 8970323030

Status : Answered

Chosen Option : 4

Q.20 ____ voltages can be available from a 3 wire DC distribution system.

Ans



A. One



B. Four



C. Two



D. Three

Question ID : 8970323077

Status : Not Answered

Chosen Option : --

Q.21 According to IE rules, final sub circuits beyond the distribution board for light, fan and 5A socket outlet ____.

Ans



A. Should not exceed 5 points / 600watts



B. Should not exceed 15 points / 1000watts



C. Should not exceed 6 points / 800watts



D. Should not exceed 10 points / 800watts

Question ID : 8970323020

Status : Answered

Chosen Option : 4

Q.22 Bronze is an alloy of:

Ans



A. Copper Cadmium



B. Copper Tin



C. Copper Nickel



D. Copper Chromium

Question ID : 8970323132

Status : Answered

Chosen Option : 2

Q.23 The material used for generator, motor winding and field windings is ____.

- Ans ☒ A. Enamelled copper wire
☐ B. Super enamelled copper wire
☐ C. Rolled copper bars
☐ D. Silver

Question ID : 8970323140

Status : Answered

Chosen Option : 1

Q.24 When there is a dead end of the line or there is a corner or a sharp curve or the lines crosses rivers ____ insulator is used.

- Ans ☒ A. Strain
☐ B. Pin
☐ C. Shackle
☐ D. Stay

Question ID : 8970323031

Status : Answered

Chosen Option : 1

Q.25 During the process of electrolysis, when the same quantity of electricity is passed through different electrolytes, the mass of substances deposited is proportional to:

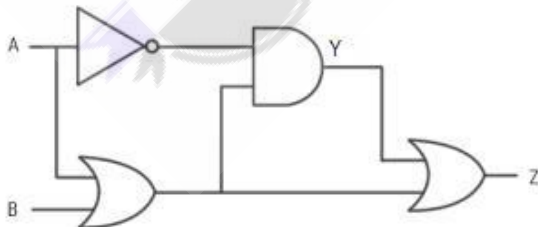
- Ans ☐ A. Molecular numbers
☐ B. Molecular weight
☐ C. Valencies
☒ D. Chemical equivalents

Question ID : 8970323007

Status : Not Answered

Chosen Option : --

Q.26 If A=1, B=1, what will be the values of Y and Z?

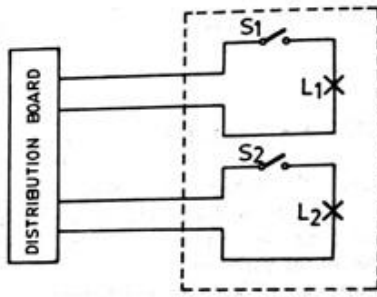


- Ans ☐ A. Y= 0, Z= 0
☐ B. Y= 1, Z= 0
☒ C. Y= 0, Z= 1
☐ D. Y= 1, Z= 1

Question ID : 8970323127

Status : Not Answered

Q.27 Identify the given wiring diagram of _____.



- Ans
- ☒ A. Two lamps controlled by two switches, all connected in series
 - ☒ B. Two lamps in series, each having a switch in parallel
 - ☒ C. Two lamps each controlled by a separate switch
 - ☒ D. Two lamps in joint box system

Question ID : 8970323092

Status : Answered

Chosen Option : 2

Q.28 The capacitor in a single phase induction motor is used for _____.

- Ans
- ☒ A. Improving the power factor
 - ☒ B. Reducing the harmonics
 - ☒ C. Starting the motor
 - ☒ D. Improving the starting torque

Question ID : 8970323032

Status : Answered

Chosen Option : 4

Q.29 The change in resistance of an electrical strain gauge with a gauge factor of 2.0 and resistance of 50Ω when subjected to a strain of 0.001 is:

- Ans
- ☒ A. 0.1Ω
 - ☒ B. 0.01Ω
 - ☒ C. 0.001Ω
 - ☒ D. 0.0001Ω

Question ID : 8970323147

Status : Not Answered

Chosen Option : --

Q.30 As per IE rules the nominal cross sectional area of the conductor should not be less than _____ if copper is used for sub circuit wiring.

- Ans
- ☒ A. 2.5 mm^2
 - ☒ B. 1.0 mm^2
 - ☒ C. 1.5 mm^2

☒ D. 3.5 mm^2

Question ID : 8970323026

Status : Answered

Chosen Option : 3

Q.31 Thermo-hygrometer is an instrument used in Energy Audit for measurement of:

- Ans ☒ A. Air velocity and humidification, ventilation in air-conditioning and refrigeration systems.
- ☒ B. Spot water analysis of the amount of dissolved salts in water.
- ☒ C. Spot analysis of effective acidity or alkalinity of a solution or water.
- ☒ D. Flow of liquids through pipelines of various sizes.

Question ID : 8970323071

Status : Answered

Chosen Option : 1

Q.32 The ratio of current year production to the reference year's production is called ____.

- Ans ☒ A. Diversity factor
- ☒ B. Load factor
- ☒ C. Maximum demand factor
- ☒ D. Production factor

Question ID : 8970323064

Status : Answered

Chosen Option : 4

Q.33 Which of the following is used with critical load like hospital intensive care unit where a temporary power failure can cause lot of inconvenience?

- Ans ☒ A. UPS
- ☒ B. LPS
- ☒ C. SMPS
- ☒ D. SCS

Question ID : 8970323104

Status : Not Answered

Chosen Option : --

Q.34 What is the commonly used unit of measure for rating an air conditioner?

- Ans ☒ A. Btu
- ☒ B. kW
- ☒ C. Joules
- ☒ D. Ton

Question ID : 8970323022

Status : Answered

Chosen Option : 4

Q.35 A DC motor is running with a certain load. The effect of adding an external resistance in the shunt field circuit is ____.

- Ans ☒ A. To reduce the motor speed
☒ B. To increase the motor speed
☒ C. To stop the motor
☒ D. To reduce the armature current of the motor

Question ID : 8970323113
Status : Answered
Chosen Option : 2

Q.36 In a transmission system, the cost of lost energy is ____.

- Ans ☒ A. Directly proportional to the square of current
☒ B. Inversely proportional to the square of current
☒ C. Directly proportional to the square of voltage
☒ D. Inversely proportional to the square of voltage

Question ID : 8970323076
Status : Answered
Chosen Option : 1

Q.37 A semiconductor has ____ electrons in its valency ring.

- Ans ☒ A. 3
☒ B. 6
☒ C. 0
☒ D. 4

Question ID : 8970323131
Status : Answered
Chosen Option : 4

Q.38 For reliable protection of overhead transmission lines from direct lightning strokes using ground wires, the protection angle 'a' between the vertical line through the ground wire axis and the line passing from the ground wire axis to the outer most line conductor should be ____.

- Ans ☒ A. $10^\circ - 15^\circ$
☒ B. $50^\circ - 60^\circ$
☒ C. $20^\circ - 30^\circ$
☒ D. $40^\circ - 50^\circ$

Question ID : 8970323060
Status : Not Answered
Chosen Option : --

Q.39 What will be the waste heat potential for a 2200kVA set at 1000kW loading with an exhaust gas temperature of 500°C ?

- Ans ☒ A. 10 lakh kCal/hour
☒ B. 6.4 lakh kCal/hour
☒ C. 4.8 lakh kCal/hour
☒ D. 3.2 lakh kCal/hour

Question ID : 8970323070

Status : **Not Answered**
Chosen Option : --

Q.40 In an induction motor, the phenomenon of magnetic locking between the stator and the rotor teeth is called ____.

- Ans
- ☒ A. Hunting
 - ☒ B. Skewing
 - ☒ C. Cogging
 - ☒ D. Crawling

Question ID : 8970323035
Status : **Answered**
Chosen Option : 3

Q.41 When it is said that the duty cycle of a welding machine is 10 %, it means:

- Ans
- ☒ A. The machine operates for a duration of two minutes in a period of ten minutes.
 - ☒ B. The actual output of the machine is 10 % of the rated output.
 - ☒ C. The machine operates for a period of one minute only in a ten minute span.
 - ☒ D. The machine operates at 10 % efficiency.

Question ID : 8970323009
Status : **Answered**
Chosen Option : 3

Q.42 The normal value of coefficient of adhesion with clean dry rails is ____.

- Ans
- ☒ A. 0.38
 - ☒ B. 0.25
 - ☒ C. 0.12
 - ☒ D. 0.09

Question ID : 8970323005
Status : **Not Answered**
Chosen Option : --

Q.43 Utilization factor of a power station is the ratio of:

- Ans
- ☒ A. Maximum demand of a power station to the sum of individual maximum demands.
 - ☒ B. Average demand to the rated capacity of the power station.
 - ☒ C. Sum of individual maximum demands to maximum demand of a power station.
 - ☒ D. Maximum demand on the power station to the rated capacity of the power station.

Question ID : 8970323066
Status : **Answered**
Chosen Option : 4





Q.44 Which rating is provided by Bureau of Energy Efficiency, India to indicate the energy efficiency of household appliances like refrigerators, water heaters and air conditioners?

- Ans
- ☒ A. BIS
 - ☒ B. ISI
 - ☒ C. ISC

 D. Star labelling





Question ID : 8970323063
Status : Not Answered
Chosen Option : --

Q.45 Boards on which various control accessories like energy meter, iron clad switch, fuses etc. are housed are called _____ boards.

- Ans  A. Panel
 B. Control
 C. Standard
 D. Switch





Question ID : 8970323096
Status : Answered
Chosen Option : 1

Q.46 Snubber circuits are used with thyristors to:

- Ans  A. See that SCR turns ON at a voltage much less than its forward break over voltage
 B. To protect the gate circuit
 C. To limit the rate of rise of voltage dv/dt .
 D. To limit the rate of rise of current di/dt .





Question ID : 8970323107
Status : Answered
Chosen Option : 1

Q.47 Constant losses of DC motor can be measured by:

- Ans  A. Swinburne's Test
 B. Retardation Test
 C. Hokinson's Test
 D. Load Test

Question ID : 8970323115
Status : Answered
Chosen Option : 1

Q.48 If the Reynold's number is greater than 100000, then the flow is _____.

- Ans  A. Uniform
 B. Laminar
 C. Turbulent
 D. Streamline

Question ID : 8970323145
Status : Not Answered
Chosen Option : --

Q.49 Which one of the following is an Indian Standard Organization?

- Ans  A. IEC

- ☒ B. ISO
☒ C. ANSI
☒ D. BIS

Question ID : 8970323027
Status : Answered
Chosen Option : 2

Q.50 Synchronous motors are particularly attractive for low speed drives below ____.

- Ans ☒ A. 300 rpm
☒ B. 1500 rpm
☒ C. 800 rpm
☒ D. 1000 rpm

Question ID : 8970323041
Status : Answered
Chosen Option : 2

Q.51 The instrument which is used to measure insulation resistance is:

- Ans ☒ A. Wheatstone's bridge
☒ B. Megger
☒ C. Ballistic galvanometer
☒ D. Instrument transformer

Question ID : 8970323141
Status : Answered
Chosen Option : 2

Q.52 The function of electrostatic precipitator in a coal based thermal power plant is to:

- Ans ☒ A. Collect dust from flue gas
☒ B. Clean the turbine blades
☒ C. Collect dust at the air inlet
☒ D. Collect dust from the coal

Question ID : 8970323085
Status : Answered
Chosen Option : 2

Q.53 "M.M.F around any closed path equals the current enclosed by the path". This is known as

- Ans ☒ A. Coulomb's law
☒ B. Gauss' law
☒ C. Ampere's law
☒ D. Biot-Savart law

Question ID : 8970323075
Status : Answered
Chosen Option : 2

Q.54 Yaw control in a wind energy power plant:

- Ans
- ☒ A. Control the gear speed
 - ☒ B. Rotate the turbine about the vertical axis
 - ☒ C. Control the turbine speed
 - ☒ D. Rotate the turbine about the horizontal axis

Question ID : 8970323086

Status : Answered

Chosen Option : 2

Q.55 The field winding of a DC machine consists of eight coils in series, each containing 1200 turns. When the current is 3A, the flux linked with each coil is 20 mWb, then energy stored is _____.

- Ans
- ☒ A. 36 Joules
 - ☒ B. 288 Joules
 - ☒ C. 64 Joules
 - ☒ D. 108 Joules

Question ID : 8970323117

Status : Answered

Chosen Option : 2

Q.56 _____ loss is found from the open circuit test on a transformer.

- Ans
- ☒ A. Dielectric
 - ☒ B. Ohmic
 - ☒ C. Copper
 - ☒ D. Core

Question ID : 8970323114

Status : Answered

Chosen Option : 4

Q.57 Armature of the DC machine is laminated to reduce _____.

- Ans
- ☒ A. Eddy current loss
 - ☒ B. Copper loss
 - ☒ C. Friction and windage loss
 - ☒ D. Hysteresis loss

Question ID : 8970323111

Status : Answered

Chosen Option : 1

Q.58 The function chart system of programming was originally developed in:

- Ans
- ☒ A. South America
 - ☒ B. Asia
 - ☒ C. North America
 - ☒ D. Europe

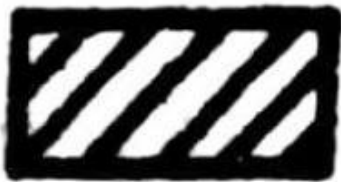
Question ID : 8970323046

Q.59 Electrodynamo meter type of instruments are enclosed in a casing made up of high permeability material to:

- Ans
- ☒ A. To remove electrostatic effects.
 - ☒ B. To provide mechanical strength to the coils present.
 - ☒ C. To protect against external magnetic fields.
 - ☒ D. Provide good damping.

Question ID : **8970323143**
Status : **Answered**
Chosen Option : **3**

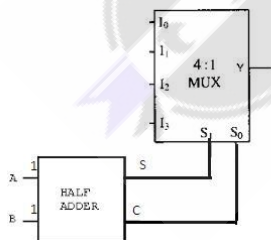
Q.60 The given symbol is lighting circuit fuse boards of _____.



- Ans
- ☒ A. Distribution fuse board with switches
 - ☒ B. Distribution fuse board without switches
 - ☒ C. Main fuse board with switches
 - ☒ D. Main fuse board without switches

Question ID : **8970323095**
Status : **Answered**
Chosen Option : **2**

Q.61 The Inputs of a Half Adder are $A=1$, $B=1$. The outputs are connected to the select lines of a 4:1 Multiplexer. What will be the output?



- Ans
- ☒ A. $Y = I_2$
 - ☒ B. $Y = I_0$
 - ☒ C. $Y = I_3$
 - ☒ D. $Y = I_1$

Question ID : **8970323130**
Status : **Not Answered**

Q.62 The most efficient power plant is ____.

Ans

- ☒ A. Hydro electric power plant
- ☐ B. Coal- based steam power plant
- ☐ C. Nuclear power plant
- ☐ D. Diesel engine power plant

Question ID : 8970323087

Status : Answered

Chosen Option : 2

Q.63 This metal is used in high rupturing capacity fuses and in special contacts:

Ans

- ☒ A. Silver
- ☐ B. Tin
- ☐ C. Nickel
- ☐ D. Zinc

Question ID : 8970323139

Status : Answered

Chosen Option : 1

Q.64 In Rod Gap Arrester, a current limiting resistance is connected in series with the rod in order to ____.

Ans

- ☐ A. Increase the rod gap
- ☐ B. Avoid cascading of steep fronted waves
- ☒ C. Avoid continued sparking even at low voltage
- ☐ D. Reduce breakdown voltage

Question ID : 8970323057

Status : Answered

Chosen Option : 3

Q.65 The first thermal power plant of India is:

Ans

- ☐ A. Mundhra Ultra Mega Power Plant
- ☒ B. Hussain Sagar Thermal Power Station
- ☐ C. Vindhyachal Thermal Power Station
- ☐ D. Jharsuguda Thermal Power Plant

Question ID : 8970323090

Status : Not Answered

Chosen Option : --

Q.66 According to IE Rules the maximum load on a power sub circuit should not exceed ____ watts.

Ans

- ☒ A. 3000
- ☐ B. 1000
- ☐ C. 5000
- ☐ D. 10000

Question ID : 8970323098

Status : Answered

Chosen Option : 2

Q.67 An AC voltage of maximum value equal to 100V is applied to a single phase fully controlled bridge circuit. The peak inverse voltage rating of each SCR used will be ____.

- Ans
- ☒ A. 141.4V
 - ☒ B. 200V
 - ☒ C. 70.7V
 - ☒ D. 100V

Question ID : 8970323102

Status : Answered

Chosen Option : 1

Q.68 It is used in panels for switch gear and arcing device.

- Ans
- ☒ A. Asbestos cement
 - ☒ B. Asbestos tapes
 - ☒ C. Asbestos paper and board with cotton backing
 - ☒ D. Asbestos cloth

Question ID : 8970323137

Status : Answered

Chosen Option : 3

Q.69 For a 16-bit signed integer, SLC 500 counters can count within the range of:

- Ans
- ☒ A. -32,767 to +32,768
 - ☒ B. -32,765 to +32,764
 - ☒ C. -32,766 to +32,765
 - ☒ D. -32,768 to +32,767

Question ID : 8970323045

Status : Not Answered

Chosen Option : --

Q.70 An electromagnetic attraction type relay operates on ____.

- Ans
- ☒ A. Pulsated DC
 - ☒ B. AC only
 - ☒ C. DC only
 - ☒ D. Both AC & DC

Question ID : 8970323052

Status : Answered

Chosen Option : 4

Q.71 The hydraulic turbine suitable for a speed range of 95 to 440 rpm is:

- Ans
- ☒ A. Pelton wheel
 - ☒ B. Kaplan

☒ C. Rankine

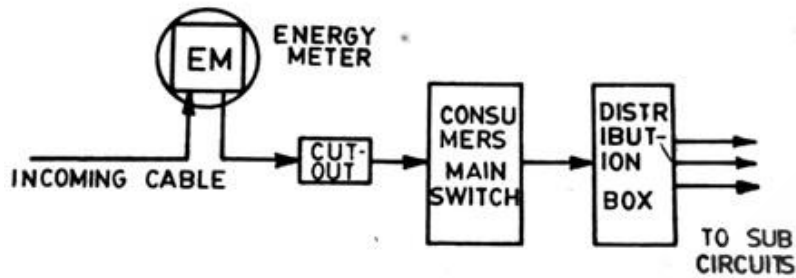
☒ D. Francis

Question ID : 8970323084

Status : Not Answered

Chosen Option : --

Q.72 Identify the block diagram given below:



Ans ☒ A. Meter distribution board

☒ B. Meter installation board

☒ C. Meter generation board

☒ D. Meter transmission board

Question ID : 8970323101

Status : Answered

Chosen Option : 2

Q.73 The power transfer capability of a transmission line is the most affected by _____.

Ans ☒ A. Shunt conductance

☒ B. Capacitance

☒ C. Resistance

☒ D. Inductance

Question ID : 8970323074

Status : Answered

Chosen Option : 4

Q.74 A universal motor has high starting torque and a variable speed characteristics because it is _____.

Ans ☒ A. Shunt wound

☒ B. Long shunt wound

☒ C. Compound wound

☒ D. Series wound

Question ID : 8970323037

Status : Answered

Chosen Option : 4

Q.75 The short circuit ratio (SCR) of a synchronous machine is given by relation _____ under

rated speed condition.

- Ans
- ☐ A. Field current for rated OC current / Field current for rated SC voltage
 - ☐ B. Field current for rated SC current / Field current for rated OC voltage
 - ☐ C. Field current for rated SC voltage / Field current for rated OC current
 - ☒ D. Field current for rated OC voltage / Field current for rated SC current

Question ID : 8970323029

Status : Not Answered

Chosen Option : --

Q.76 A plant having load factor of 0.6 has a peak load of 100MW. The energy produced by this plant for a month of 30 days is:

- Ans
- ☒ A. 432×10^5 units
 - ☐ B. 211×10^3 units
 - ☐ C. 412×10^3 units
 - ☐ D. 2000 units

Question ID : 8970323089

Status : Not Answered

Chosen Option : --

Q.77 The major advantage of a radial distribution system is:

- Ans
- ☐ A. Less voltage fluctuations at the consumer's terminal
 - ☒ B. Low initial cost
 - ☐ C. Require less reserve capacity
 - ☐ D. Increased service reliability

Question ID : 8970323078

Status : Answered

Chosen Option : 2

Q.78 On light loads, induction type A.C motors works on power factor in the range of ____.

- Ans
- ☐ A. 0.8-0.9
 - ☒ B. 0.2-0.3
 - ☐ C. 0.5-0.6
 - ☐ D. 0.6-0.8

Question ID : 8970323073

Status : Answered

Chosen Option : 2

Q.79 During air conditioning in winter:

- Ans
- ☐ A. The air is cooled and dehumidified
 - ☐ B. The air is cooled and humidified.
 - ☒ C. The air is heated and humidified.
 - ☐ D. The air is heated and dehumidified.

Question ID : 8970323006

Status : **Answered**
Chosen Option : 4

Q.80 If computers and monitors are set in 'sleep' mode when not in use, the energy cost is reduced approximately by:

- Ans
- ☒ A. 45 percent
 - ☒ B. 30 percent
 - ☒ C. 25 percent
 - ☒ D. 40 percent

Question ID : 8970323067
Status : **Not Answered**
Chosen Option : --

Q.81 The starter recommended for a 15 hp squirrel cage induction motor is:

- Ans
- ☒ A. Star delta starter
 - ☒ B. Face plate starter
 - ☒ C. Direct one line starter
 - ☒ D. Auto transformer starter

Question ID : 8970323025
Status : **Answered**
Chosen Option : 1

Q.82 In a double squirrel cage motor, outer cage is made of high resistance metal bars primarily for the purpose of increasing its _____.

- Ans
- ☒ A. Starting torque
 - ☒ B. Speed regulation
 - ☒ C. Efficiency
 - ☒ D. Starting current

Question ID : 8970323034
Status : **Answered**
Chosen Option : 1

Q.83 The unit of solid angle is _____.

- Ans
- ☒ A. Lumens/ m^2
 - ☒ B. Steradian
 - ☒ C. Lumens/watt
 - ☒ D. Candela

Question ID : 8970323002
Status : **Answered**
Chosen Option : 2

Q.84

Symbol shown below represents:



- Ans
- ☒ A. Protective earth
 - ☒ B. Clean earth
 - ☒ C. Chassis earth
 - ☒ D. Neutral earth

Question ID : 8970323017
Status : Answered
Chosen Option : 1

Q.85 Which of the following is not a PLC manufacturer?

- Ans
- ☒ A. SIEMENS
 - ☒ B. ALLEN BRADLEY
 - ☒ C. MICROSOFT
 - ☒ D. MITSUBISHI

Question ID : 8970323047
Status : Not Answered
Chosen Option : --

Q.86 In thermal power plants, the function of economizer is to:

- Ans
- ☒ A. Heat steam from boiler
 - ☒ B. Heat feed water using flue gas
 - ☒ C. Heat air fuel mixture
 - ☒ D. Heat steam taken from turbine outlets

Question ID : 8970323082
Status : Answered
Chosen Option : 1

Q.87 During regenerative braking the motor operates as:

- Ans
- ☒ A. Motor
 - ☒ B. Inverter
 - ☒ C. Transformer
 - ☒ D. Generator

Question ID : 8970323112
Status : Answered
Chosen Option : 4

Q.88 In oxide film arrester, when heated, lead peroxide gets converted to:

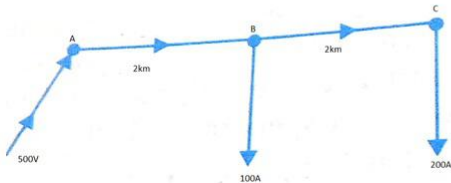
- Ans
- ☒ A. Black lead

- ☒ B. White lead
- ☒ C. Graphite
- ☒ D. Red lead

Question ID : 8970323059
Status : Answered
Chosen Option : 2

Q.89 Fig. below shows a 2 wire DC distributor cable AC of 4km long supplying loads of 100A and 200A at distances of 2km and 4km from A. The feeder is fed at point A with a voltage of 500V. The voltage available at the farthest point in the system is _____.

(Assume conductor resistance per km as 0.02Ω).



- Ans**
- ☒ A. 470V
 - ☒ B. 460V
 - ☒ C. 476V
 - ☒ D. 480V

Question ID : 8970323081
Status : Not Answered
Chosen Option : --

Q.90 The permissible voltage drop in a lighting circuit is _____.

- Ans**
- ☒ A. 5 % of the supply voltage – 1V
 - ☒ B. 3 % of the supply voltage
 - ☒ C. 2 % of the supply voltage + 1 V
 - ☒ D. 3 % of the supply voltage + 1 V

Question ID : 8970323013
Status : Not Answered
Chosen Option : --

Q.91 Which of the following magnetic materials have small area of hysteresis loop?

- Ans**
- ☒ A. Saturable magnetic material
 - ☒ B. Soft magnetic material
 - ☒ C. Hard magnetic material
 - ☒ D. Diamagnetic material

Question ID : 8970323136
Status : Answered
Chosen Option : 2

Q.92 The main circuit wire in a domestic installation is required to carry a current of 20A when connected across a single phase supply voltage of 230V. The maximum permissible voltage

drop can be ____.

- Ans
- ☒ A. 4.5V
 - ☒ B. 5.6V
 - ☒ C. 11.5V
 - ☒ D. 10.5V

Question ID : 8970323014

Status : Answered

Chosen Option : 3

Q.93 A 2000/200 V, 20 kVA, 50Hz single phase transformer has 66 turns in the secondary winding. The number of turns on primary will be ____.

- Ans
- ☒ A. 550 turns
 - ☒ B. 440 turns
 - ☒ C. 330 turns
 - ☒ D. 660 turns

Question ID : 8970323118

Status : Answered

Chosen Option : 4

Q.94 Which of the following is the type of synthetic resin?

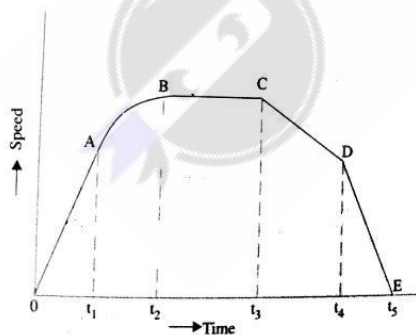
- Ans
- ☒ A. Shellac
 - ☒ B. PVC
 - ☒ C. Wood resin
 - ☒ D. Amber

Question ID : 8970323135

Status : Not Answered

Chosen Option : --

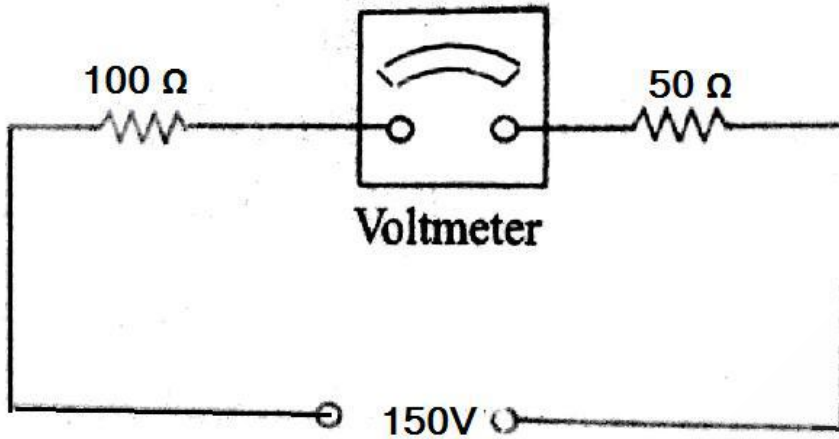
Q.95 The graph shown below represents the speed / time curve of an electric train. What does region AB on the curve represent?



- Ans
- ☒ A. Coasting
 - ☒ B. Free running
 - ☒ C. Acceleration on speed curve
 - ☒ D. Rheostatic acceleration

Question ID : 8970323004

Q.96 What will be the reading of the voltmeter in the above figure?



- Ans
- ☒ A. 100V
 - ☒ B. 150V
 - ☒ C. 0V
 - ☒ D. 50V

Question ID : 8970323142
Status : **Answered**
Chosen Option : 2

Q.97 What is the condition necessary to avoid Race Around condition in J K flip flop if clock pulse is t_p , propagation delay is Δt , and clock period is T.

- Ans
- ☒ A. $\Delta t > t_p > T$
 - ☒ B. $t_p > \Delta t > T$
 - ☒ C. $t_p < \Delta t < T$
 - ☒ D. $\Delta t < t_p < T$

Question ID : 8970323129
Status : **Not Answered**
Chosen Option : --

Q.98 Inverted operation of a generator can be protected using ____.

- Ans
- ☒ A. Over frequency relay
 - ☒ B. Over speed relay
 - ☒ C. Reverse power relay
 - ☒ D. Overload relay

Question ID : 8970323054
Status : **Answered**
Chosen Option : 3

Q.99 An alternator is being synchronised to the power station bus bars whose frequency is 50 Hz.

If the bulb of the synchroscope glows with maximum brightness, the frequency of the alternator is:

- Ans ☒ A. 50 Hz
☒ B. 40 Hz
☒ C. 55 Hz
☒ D. 45 Hz

Question ID : 8970323148

Status : Answered

Chosen Option : 1

Q.100 $Y = A \odot B$

Which Logic Gate function is represented by above equation?

- Ans ☒ A. NAND
☒ B. EX-OR
☒ C. NOR
☒ D. EX-NOR

Question ID : 8970323125

Status : Not Answered

Chosen Option : --

Q.101 Identify the given general symbol shown:



- Ans ☒ A. Ceiling Fan
☒ B. Exhaust fan
☒ C. Bracket Fan
☒ D. Fan Regulator

Question ID : 8970323094

Status : Answered

Chosen Option : 2

Q.102 Three SCRs are connected together to form a series string. The voltages across the thyristors are 350V, 300V and 250V respectively. If the currents in the thyristors are 6A, 9A, and 12A respectively, what will be the value of equalising resistance to be used across each thyristor?

- Ans ☒ A. 26.23 Ω
☒ B. 50 Ω

☒ C. 16.67 Ω

☐ D. 33.33 Ω

Question ID : 8970323109

Status : Answered

Chosen Option : 4

Q.103 The lubricating oil used with sleeve bearings is to be renewed:

Ans ☒ A. Once in six months

☐ B. Once in three months

☐ C. Once in five months

☐ D. Once in four months

Question ID : 8970323008

Status : Answered

Chosen Option : 2

Q.104 AND Function in ladder logic uses:

Ans ☐ A. Normally closed contacts in parallel

☐ B. Normally closed contacts in series

☒ C. Normally open contacts in series

☐ D. Normally open contacts in parallel

Question ID : 8970323042

Status : Not Answered

Chosen Option : --

Q.105 Which of the following are the two 16 bit SFRs of Microcontroller 8051?

Ans ☒ A. PC, DPTR

☐ B. SP, PSW

☐ C. SP, DPTR

☐ D. PC, SP

Question ID : 8970323051

Status : Not Answered

Chosen Option : --

Q.106 In synchronous motors, V-curves show relationship between:

Ans ☐ A. Armature current and supply voltage

☒ B. DC field current and AC armature current

☐ C. Excitation current and back emf

☐ D. Field current and power factor

Question ID : 8970323040

Status : Answered

Chosen Option : 2

Q.107 _____ is used as power source in electric arc welding.

Ans ☐ A. DC Series generator

☒ B. Differentially wound compound generator

☐ C. Separately excited DC generator

☐ D. Cumulative compound DC generator

Question ID : 8970323001

Status : Answered

Chosen Option : 4

Q.108 A synchronous motor connected to infinite bus bars has at constant full load, 100% excitation and unity power factor (p.f.). On changing the excitation only, the armature current will have:

Ans ☐ A. Leading p.f. with under excitation

☐ B. No change of p.f.

☐ C. Lagging p.f. with over excitation

☒ D. Leading p.f. with over excitation

Question ID : 8970323039

Status : Answered

Chosen Option : 4

Q.109 One of the basic parameters used by ASME to define fans is:

Ans ☒ A. Specific ratio

☐ B. Impeller power

☐ C. Static fan efficiency

☐ D. Fan efficiency

Question ID : 8970323065

Status : Not Answered

Chosen Option : --

Q.110 The instrument used to measure illumination level is called:

Ans ☐ A. Wattmeter

☐ B. Radiation pyrometer

☒ C. Lux meter

☐ D. Anemometer

Question ID : 8970323062

Status : Answered

Chosen Option : 3

Q.111 According to IEEE, "a system or a portion of a system can be said to be effectively grounded when for all points on the system or specified portion thereof, the ratio of zero sequence reactance to positive sequence reactance (X_0/X_1) and the ratio of zero sequence resistance to positive sequence resistance (R_0/R_1) should be _____."

Ans ☐ A.

(X_0/X_1) not greater than 0.3 and (R_0/R_1) not greater than 0.1

☒ B.

(X_0/X_1) not greater than 3 and (R_0/R_1) not greater than 1

☐ C.

(X_0/X_1) not greater than 0.2 and (R_0/R_1) not greater than 0.3

☒ D.

(X_0/X_1) not greater than 2 and (R_0/R_1) not greater than 3

Question ID : 8970323061

Status : Not Answered

Chosen Option : --

Q.112 Identify the IC-74147.

Ans



A. BCD to Decimal Decoder



B. Octal to Binary priority Encoder



C. Decimal to BCD priority Encoder



D. BCD to 7-Segment Decoder

Question ID : 8970323122

Status : Not Answered

Chosen Option : --

Q.113 Clamp on meters are used because:

Ans



A. They help to measure very high voltages.



B. They are convenient to measure power dissipated in circuits.



C. They are very accurate



D. Using these meters it is possible to measure current flowing in a line without breaking the circuit.

Question ID : 8970323146

Status : Answered

Chosen Option : 4

Q.114 The voltage between the feet of a person standing on the floor of substation with 0.5m spacing between two feet during the flow of earth fault current is known as ____.

Ans



A. Peak potential



B. Floor potential



C. Step potential



D. Touch potential

Question ID : 8970323056

Status : Not Answered

Chosen Option : --

Q.115 Hard ferrites are used for making ____.

Ans



A. Light weight permanent magnet



B. Transformer cores



C. Electrical machinery



D. High frequency equipment

Question ID : 8970323133

Status : Answered

Chosen Option : 4

Q.116 The electric supply authority supplies power to the consumers through a low voltage three

phase four wire distribution system is called _____.

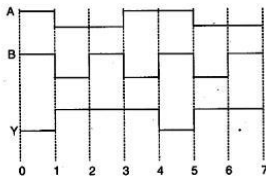
- Ans
- ☒ A. Primary transmission system
 - ☒ B. Primary distribution system
 - ☒ C. Secondary transmission system
 - ☒ D. Secondary distribution system

Question ID : 8970323100

Status : Answered

Chosen Option : 4

Q.117 This is the waveform of a gate. There are two inputs A and B and one output Y. Identify the Logic Gate based on the output waveform:



- Ans
- ☒ A. EX-OR Gate
 - ☒ B. AND Gate
 - ☒ C. NAND Gate
 - ☒ D. NOR Gate

Question ID : 8970323128

Status : Not Answered

Chosen Option : --

Q.118 OPC interfacing standard was developed during the years of:

- Ans
- ☒ A. 1990s
 - ☒ B. 1960s
 - ☒ C. 1980s
 - ☒ D. 1970s

Question ID : 8970323044

Status : Not Answered

Chosen Option : --

Q.119 When an overhead connection is to be given to a single story building using G.I pipe, the pipe is required to be supported by _____.

- Ans
- ☒ A. Cross-arm
 - ☒ B. Stay wire
 - ☒ C. Clamps
 - ☒ D. Bird guards

Question ID : 8970323012

Status : Answered

Chosen Option : 2

Q.120 Which of the following condition takes place when the Microcontroller 8051 is reset?

Ans

- ☐ A. SP=08H, P1= 00H, RS0= 1, RS1= 1
- ☐ B. SP=07H, P1= 00H, RS0= 0, RS1= 0
- ☐ C. SP=08H, P1= FFH, RS0= 0, RS1= 0
- ☒ D. SP=07H, P1= FFH, RS0= 0, RS1= 0

Question ID : 8970323048

Status : Not Answered

Chosen Option : --

Q.121 In a dual converter, if the firing angle of one bridge is 30° , then the firing angle of second bridge is ____.

- Ans ☐ A. 30°
- ☐ B. 180°
- ☐ C. 120°
- ☒ D. 150°

Question ID : 8970323106

Status : Not Answered

Chosen Option : --

Q.122 In hydro-electric power plants, ____ reduces water hammer effect in penstock

- Ans ☐ A. Spill way
- ☐ B. Trash rack
- ☒ C. Surge tank
- ☐ D. Forebay

Question ID : 8970323083

Status : Not Answered

Chosen Option : --

Q.123 A power station has 4 consumers with their maximum demand as 40MW, 20MW, 30MW and 50MW. The maximum demand of the station is 100MW. The diversity factor of the plant is ____.

- Ans ☐ A. 0.5
- ☐ B. 0.2
- ☒ C. 1.4
- ☐ D. 0.35

Question ID : 8970323091

Status : Answered

Chosen Option : 3

Q.124 A DC chopper remains ON for $25\mu\text{s}$ and OFF for $5\mu\text{s}$. What is the value of chopper frequency?

- Ans ☐ A. 50 kHz
- ☐ B. 200 kHz
- ☐ C. 40 kHz
- ☒ D. 33.33 kHz

Question ID : 8970323108

Status : **Not Answered**
Chosen Option : --

Q.125 The range of frequency used for dielectric heating is:

- Ans
- ☒ A. 10kHz to 5MHz
 - ☒ B. 500Hz to 5kHz
 - ☒ C. 5kHz to 10kHz
 - ☒ D. 10MHz to 30MHz

Question ID : **8970323003**
Status : **Answered**
Chosen Option : 4

Q.126 Based on the type of rotor, the turbine used for vertical axis wind turbine is:

- Ans
- ☒ A. Savonius type
 - ☒ B. Wound rotor type
 - ☒ C. Propeller type
 - ☒ D. Multiple blade type

Question ID : **8970323088**
Status : **Not Answered**
Chosen Option : --

Q.127 In a single phase hysteresis motor, the rotor cylinder is made up of ____.

- Ans
- ☒ A. Magnetically hard cobalt steel
 - ☒ B. Magnetically smooth chrome steel
 - ☒ C. Steel laminations
 - ☒ D. Solid steel

Question ID : **8970323038**
Status : **Answered**
Chosen Option : 2

Q.128 In a balanced 3 phase 4 wire system of power transmission, the phase sequence is RYB. If the voltage of R phase is $400 \angle 0^\circ$ volts. Then the voltage of B phase is:

- Ans
- ☒ A. $400 \angle -240^\circ$ V
 - ☒ B. $400 \angle 240^\circ$ V
 - ☒ C. $400 \angle 0^\circ$ V
 - ☒ D. $400 \angle 120^\circ$ V

Question ID : **8970323079**
Status : **Answered**
Chosen Option : 1

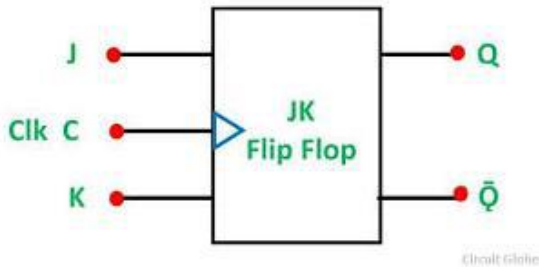
Q.129 In the speed control of a slip ring induction motor using slip power recovery scheme ____.

- Ans
- ☒ A. The efficiency increases but power factor decreases.
 - ☒ B. Efficiency improves and power factor remains constant.

- ☐ C. Power factor improves but efficiency decreases.
- ☐ D. Both power factor and efficiency improve.

Question ID : 8970323110
Status : Answered
Chosen Option : 3

Q.130 Which type of triggering is used in this flip-flop?



- Ans ☐ A. Negative edge triggering
- ☒ B. Positive edge triggering
- ☐ C. Positive level triggering
- ☐ D. Negative level triggering

Question ID : 8970323124
Status : Not Answered
Chosen Option : --

Q.131 A factory hall of 80m X 25m is required to be illuminated with an illumination of 15 candle per square meter using 120 lamps each having an efficiency of 15 lumens per watts. Assuming an utilization factor and depreciation factor of 0.4 and 0.7 respectively, the estimated wattage of lamps is ____.

- Ans ☐ A. 200W
- ☒ B. 60W
- ☐ C. 100W
- ☐ D. 40W

Question ID : 8970323019
Status : Not Answered
Chosen Option : --

Q.132 When subjected to short circuit, _____ conductor would experience maximum damage.

- Ans ☐ A. Copper
- ☒ B. Aluminium
- ☐ C. A.C.S.R
- ☐ D. Steel

Question ID : 8970323018
Status : Answered
Chosen Option : 4

Q.133 According to ECBC 2017, new buildings will be awarded ECBC plus status if they are able to demonstrate an energy saving of:

- Ans ☒ A. 50 percent
☒ B. 35 percent
☒ C. 30 percent
☒ D. 25 percent

Question ID : 8970323069
 Status : Not Answered
 Chosen Option : --

Q.134 Write the simplified equation for the given K-Map.

B ₃ B ₂ \ B ₁ B ₀	00	01	11	10
00	0	0	1	1
01	1	1	0	0
11	1	1	0	0
10	0	0	1	1

- Ans ☒ A. $Y = \overline{B_1}B_2 + \overline{B_2}B_1$
☒ B. $Y = \overline{B_3}B_0 + \overline{B_4}B_3$
☒ C. $Y = \overline{B_3}B_2 + \overline{B_2}B_3$
☒ D. $Y = \overline{B_1}B_0 + \overline{B_0}B_1$

Question ID : 8970323126
 Status : Not Answered
 Chosen Option : --

Q.135 A thermocouple having an internal resistance of 40Ω and lead resistance of 10Ω produces a voltage of 100mV . If the output is read by a voltmeter having an internal resistance of 150Ω , what will be the voltage indicated by the voltmeter?

- Ans ☒ A. 55.5 mV
☒ B. 100 mV
☒ C. 75 mV
☒ D. 66.6 mV

Question ID : 8970323149
 Status : Not Answered
 Chosen Option : --

Q.136 Which of the following MOV instructions of Microcontroller 8051 will show an error, i.e. Instruction is not valid?

- Ans ☒ A. MOV 80H, 82H
☒ B. MOV 80H, 90H
☒ C. MOV 80H, 88H
☒ D. MOV 80H, 92H

Question ID : 8970323050
Status : Not Answered
Chosen Option : --

Q.137 _____ wiring is used in residential, commercial and public buildings to improve appearance.

- Ans ☒ A. Conduit
☐ B. Metal
☐ C. Cleat
☐ D. Batten

Question ID : 8970323093
Status : Answered
Chosen Option : 1

Q.138 In synchronous motors, the phenomenon of successive overshoots and under shoots in the motor speed due to sudden changes in the load is called _____.

- Ans ☐ A. Crawling
☐ B. Humming
☒ C. Hunting
☐ D. Damping

Question ID : 8970323033
Status : Answered
Chosen Option : 3

Q.139 The minimum depth at which the pipe must be buried in pipe earthing is _____.

- Ans ☐ A. 1.5 meters
☐ B. 3.0 meters
☐ C. 2.75 meters
☒ D. 3.75 meters

Question ID : 8970323053
Status : Answered
Chosen Option : 4

Q.140 The flux through the core of a transformer is 0.06 wb. The cross sectional area of the core is 400 cm^2 . The operating flux density in the core is _____.

- Ans ☐ A. 1.57 T
☒ B. 1.5 T
☐ C. 1.45 T
☐ D. 1.35 T

Question ID : 8970323119
Status : Answered
Chosen Option : 2

Q.141 _____ voltages are caused by direct lightning strokes to the aerial lines in the high voltage system.

- Ans ☐ A. Stray

✓ B. Surge

✗ C. Sag

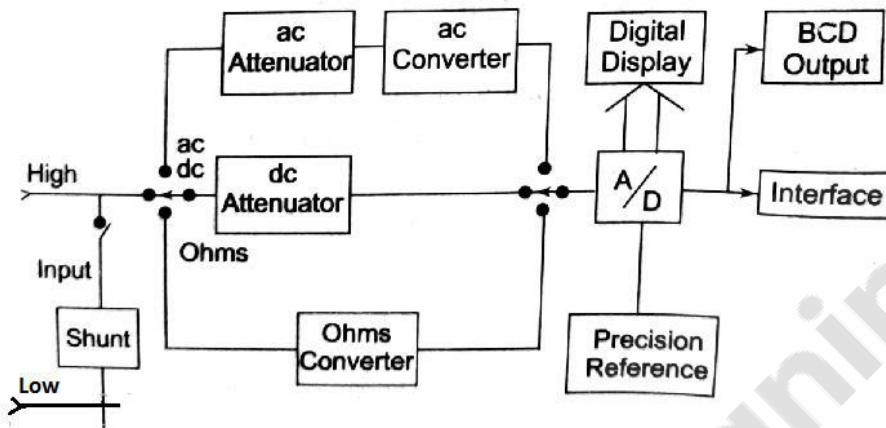
✗ D. Stress

Question ID : 8970323028

Status : Answered

Chosen Option : 2

Q.142 The block diagram shown below represents the basic circuit of a _____.



Ans ✗ A. Cathode ray oscilloscope

✗ B. Digital frequency meter

✓ C. Digital multimeter

✗ D. Digital panelmeter

Question ID : 8970323150

Status : Not Answered

Chosen Option : --

Q.143 Which of the following is a Quad 2-Input OR Gate?

Ans ✓ A. 7432

✗ B. 7400

✗ C. 7486

✗ D. 7408

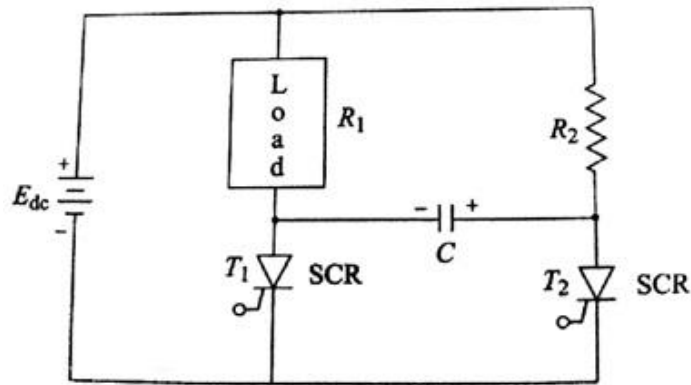
Question ID : 8970323120

Status : Not Answered

Chosen Option : --

Q.144

The figure shown below represents the circuit of:



- Ans
- ☒ A. Class D commutation
 - ☒ B. Class A commutation
 - ☒ C. Class C commutation
 - ☒ D. Class B commutation

Question ID : 8970323105

Status : Not Answered

Chosen Option : --

Q.145 Method of voltage control adopted for transmission lines in A.C systems is:

- Ans
- ☒ A. Excitation control
 - ☒ B. Synchronous condenser
 - ☒ C. Booster transformers
 - ☒ D. Auto-transformer tap changing

Question ID : 8970323080

Status : Answered

Chosen Option : 4

Q.146 In order to improve the voltage regulation of a supply system, wires used in wiring the system should have ____.

- Ans
- ☒ A. High insulation resistance
 - ☒ B. More area of cross section
 - ☒ C. Less area of cross section
 - ☒ D. More specific resistance

Question ID : 8970323011

Status : Answered

Chosen Option : 3

Q.147 How many address inputs are required to access 256 Bytes memory?

- Ans
- ☒ A. 256
 - ☒ B. 2
 - ☒ C. 8
 - ☒ D. 16

Question ID : 8970323123
Status : Not Answered
Chosen Option : --

Q.148 Creeping in energy meter can be avoided by:

- Ans ☒ A. Drilling two diametrically opposite holes in the disc.
☐ B. Using adjustable resistance
☐ C. Providing a small shading loop between the central pole of shunt magnet and the disc.
☐ D. Using shading bands around the central limb of shunt magnet

Question ID : 8970323144
Status : Answered
Chosen Option : 4

Q.149 Which of the following is not a standard Baud Rate?

- Ans ☐ A. 1200
☐ B. 9600
☐ C. 4800
☒ D. 2500

Question ID : 8970323049
Status : Not Answered
Chosen Option : --

Q.150 Which of the following is not an invalid BCD Code?

- Ans ☐ A. 1011
☐ B. 1010
☒ C. 1001
☐ D. 1100

Question ID : 8970323121
Status : Not Answered
Chosen Option : --

Section : General Knowledge_Awareness

Q.1 किस देश ने अपनी राज्य सरकार द्वारा आयोजित 'वाइब्रेंट गुजरात समिट' जैसे निवेश कार्यक्रम आयोजित करने के लिए भारत की मदद मांगी?

- Ans ☒ A. उज़्बेकिस्तान
☐ B. अफ़ग़ानिस्तान
☐ C. बांग्लादेश
☐ D. किर्गिज़स्तान

Question ID : 8970323152
Status : Not Answered
Chosen Option : --

Q.2 अचनकमार-अमरकंटक बायोस्फीयर रिजर्व निम्नलिखित राज्यों में स्थित है:

- Ans
- ☒ A. सिक्किम और मणिपुर
 - ☒ B. मध्य प्रदेश और छत्तीसगढ़
 - ☒ C. असम और मिजोरम
 - ☒ D. उत्तराखंड और उत्तर प्रदेश

Question ID : 8970323162
Status : Not Answered
Chosen Option : --

Q.3 _____ का उपयोग समय के साथ रहने की लागत में परिवर्तन की निगरानी के लिए किया जाता है।

- Ans
- ☒ A. जीडीपी डिफाल्टर
 - ☒ B. निर्माता मूल्य सूचकांक (PPI)
 - ☒ C. पूरे बिक्री मूल्य सूचकांक (WPI)
 - ☒ D. उपभोक्ता मूल्य सूचकांक (CPI)

Question ID : 8970323157
Status : Not Answered
Chosen Option : --

Q.4 क्रिप्स मिशन की विफलता के बाद, _____ में भारत छोड़ो आंदोलन शुरू किया गया था:

- Ans
- ☒ A. 1940
 - ☒ B. 1935
 - ☒ C. 1922
 - ☒ D. 1942

Question ID : 8970323165
Status : Answered
Chosen Option : 4

Q.5 निम्नलिखित में से कौन सा जीवमंडल भंडार ओडिशा में स्थित है?

- Ans
- ☒ A. नोकरेक
 - ☒ B. नंदादेवी
 - ☒ C. सिमलीपाल
 - ☒ D. नीलगिरि

Question ID : 8970323164
Status : Not Answered
Chosen Option : --

Q.6 क्रीपिंग, वार्किंग, गालोपिंग और हाइपर _____ के प्रकार हैं:

- Ans
- ☒ A. लागत सूचकांक
 - ☒ B. संपत्ति
 - ☒ C. मुद्रास्फीति
 - ☒ D. वेतन

Question ID : 8970323156
Status : Not Answered
Chosen Option : --

Q.7 In computer terminology, _____ is an indication of how quickly data travels along a connection.

- Ans
- ☒ A. bandlength
 - ☒ B. bandwidth
 - ☒ C. bandarea
 - ☒ D. bandheight

Question ID : 8970323169
Status : Answered
Chosen Option : 2

Q.8 18 वां गुटनिरपेक्ष आंदोलन (NAM) शिखर सम्मेलन अक्टूबर 2019 में _____ में आयोजित किया गया था।

- Ans
- ☒ A. तुर्की
 - ☒ B. आज़रबाइजान
 - ☒ C. रूस
 - ☒ D. आर्मीनिया

Question ID : 8970323153
Status : Not Answered
Chosen Option : --

Q.9 दक्षिण-पूर्वी मिज़ोरम राज्य में स्थित मिज़ो हिल्स को पहले _____ हिल्स कहा जाता था।

- Ans
- ☒ A. लुशाई
 - ☒ B. नागा
 - ☒ C. डाफला
 - ☒ D. मिश्मी

Question ID : 8970323161
Status : Not Answered
Chosen Option : --

Q.10 _____ की घोषणा 1940 में द्वितीय विश्व युद्ध में भारतीयों का समर्थन पाने के लिए वायसराय लॉर्ड लिनलिथगो द्वारा की गई थी।

- Ans
- ☒ A. दिसंबर ऑफर
 - ☒ B. अगस्त ऑफर
 - ☒ C. मार्च ऑफर
 - ☒ D. जुलाई ऑफर

Question ID : 8970323166
Status : Not Answered
Chosen Option : --

Q.11 अगस्त 2019 में बैडमिंटन विश्व चैंपियनशिप का स्वर्ण जीतने वाले पहले भारतीय कौन बने?

- Ans
- ☒ A. पीवी सिंधु
 - ☒ B. ज्वाला गुट्टा
 - ☒ C. अश्विनी पोनप्पा
 - ☒ D. साइना नेहवाल

Question ID : 8970323154

Status : Answered

Chosen Option : 1

Q.12 भारत के संविधान के भाग XV में अनुच्छेद 324 से 329 भारत के _____ से संबंधित है।

- Ans
- ☒ A. केंद्र शासित प्रदेश
 - ☒ B. निर्वाचन प्रणाली
 - ☒ C. मौलिक कर्तव्य
 - ☒ D. मौलिक अधिकार

Question ID : 8970323159

Status : Answered

Chosen Option : 1

Q.13 The nickname given to Shoaib Akhtar is:

- Ans
- ☒ A. The Turbanator
 - ☒ B. Flying Fish
 - ☒ C. Rawalpindi Express
 - ☒ D. The Don

Question ID : 8970323155

Status : Answered

Chosen Option : 3

Q.14 What is the full form of ADSL in computer terminology?

- Ans
- ☒ A. Asymmetric Data Subscriber Line
 - ☒ B. Automatic Digital Subscriber Line
 - ☒ C. Asymmetric Digital Suspension Line
 - ☒ D. Asymmetric Digital Subscriber Line

Question ID : 8970323170

Status : Not Answered

Chosen Option : --

Q.15 1936 में लखनऊ (उप्र) में आयोजित कांग्रेस अधिवेशन की अध्यक्षता किसने की?

- Ans
- ☒ A. सुभाष चंद्र बोस
 - ☒ B. जवाहर लाल नेहरू
 - ☒ C. फ़िरोज़ शाह मेहता
 - ☒ D. महात्मा गांधी

Question ID : 8970323167

Status : Answered

Chosen Option : 4

Q.16 भारत के संविधान में निम्नलिखित में से कौन सी विशेषता संयुक्त राज्य अमेरिका से ली गई है?

- Ans
- ☒ A. मंत्रियों की कैबिनेट प्रणाली
 - ☒ B. मौलिक अधिकार
 - ☒ C. पंचवर्षीय योजना



D. राष्ट्रपति के चुनाव की विधि

Question ID : 8970323158

Status : Answered

Chosen Option : 2

Q.17 भारत के संविधान की _____ अनुसूची असम, मेघालय, त्रिपुरा और मिजोरम में जनजातीय क्षेत्रों के प्रशासन के लिए विशेष प्रावधान प्रदान करती है।

Ans



A. दसवीं



B. सातवीं



C. ग्यारहवीं



D. छठी

Question ID : 8970323160

Status : Answered

Chosen Option : 4

Q.18 काजीरंगा राष्ट्रीय उद्यान स्थित है:

Ans



A. असम



B. उत्तराखंड



C. ओडिशा



D. मध्य प्रदेश

Question ID : 8970323163

Status : Answered

Chosen Option : 1

Q.19 कंप्यूटर शब्दावली में 'VDSL' के लिए V क्या है?

Ans



A. Very Low Resolution (वैरी लो रेसोलुशन)



B. Very High Resolution (वैरी हाई रेसोलुशन)



C. Very High Speed (वैरी हाई स्पीड)



D. Very Low Speed (वैरी लो स्पीड)

Question ID : 8970323168

Status : Answered

Chosen Option : 2

Q.20 अक्टूबर 2019 में वित्तीय सुरक्षा पर देश द्वारा उठाए गए नए उपायों के बाद, वित्तीय कार्रवाई कार्य बल (FATF) की ग्रे लिस्ट से किस देश को हटा दिया गया है?

Ans



A. श्रीलंका



B. इजराइल



C. लेबनान



D. बहामास

Question ID : 8970323151

Status : Not Answered

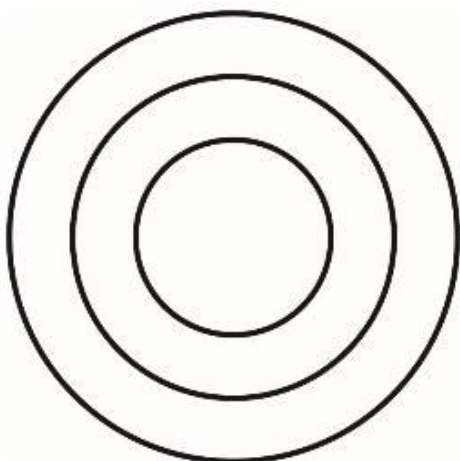
Chosen Option : --

Q.1 उस वेन आरेख को पहचानें जो दिए गए आइटम वर्गों को सबसे अच्छी तरह से दर्शाता है।

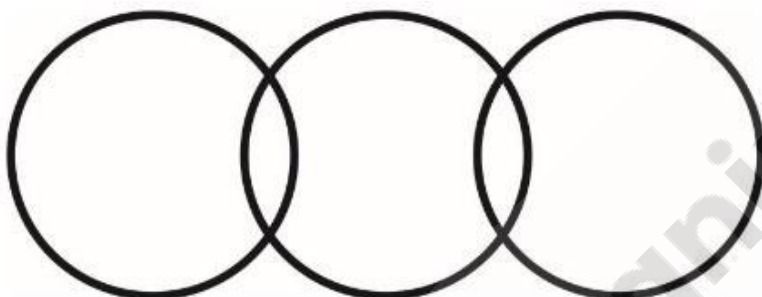
लकड़ी, पत्थर, ईट

Ans

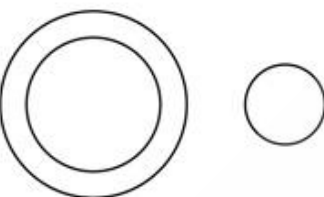
☒ A.



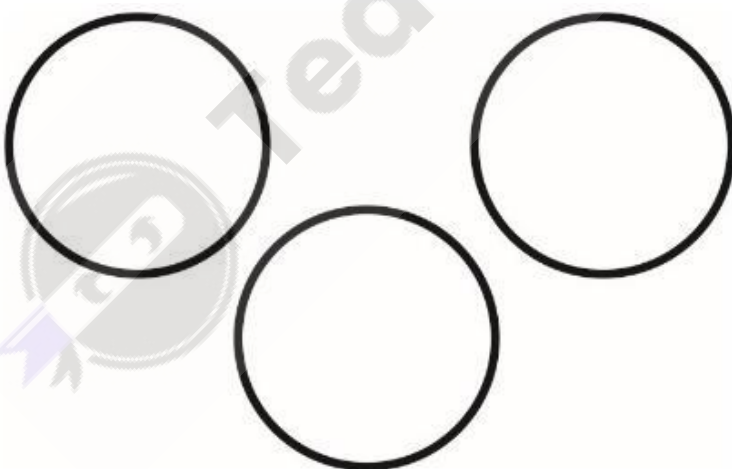
☒ B.



☒ C.



☒ D.



Question ID : 8970323190

Status : Answered

Chosen Option : 4

Q.2 दिनेश सोहन का भाई और मैरी का दामाद है। वेणु सोहन की बहन का पिता है। वेणु की बहन के साथ दिनेश का क्या संबंध है?

Ans

☒ A. दामाद

☒ B. भाई

✓ C. बेटा

✗ D. पति

Question ID : 8970323184

Status : Answered

Chosen Option : 1

Q.3 Select the option that will correctly replace the question marks (?) in the series.

24, 39, 57, 78, ?

Ans ✗ A. 105

✓ B. 102

✗ C. 108

✗ D. 106

Question ID : 8970323178

Status : Answered

Chosen Option : 2

Q.4 In a certain code CHAIR is written as 51031120 then in the same way how TUTOR will be coded?

Ans ✗ A. 2224231720

✗ B. 2224221720

✗ C. 2224222720

✓ D. 2223221720

Question ID : 8970323183

Status : Answered

Chosen Option : 4

Q.5 नीचे दिया गया प्रश्न दो कथनों का अनुसरण करता है। विश्लेषण करें और तय करें कि दिए गए कथनों से प्रश्न का उत्तर दिया जा सकता है या नहीं।

प्रश्न: कक्षा में सबसे ऊँचा कौन है?

कथन I: राम रोहन से नाटा और मोहन से ऊँचा है।

कथन II: मोहन की ऊँचाई रोहन और अनु से अधिक है।

Ans ✗ A. कथन I और II एक साथ पर्याप्त नहीं हैं

✓ B. केवल कथन II ही पर्याप्त है

✗ C. कोई भी कथन I और II पर्याप्त हैं

✗ D. केवल कथन I ही पर्याप्त है

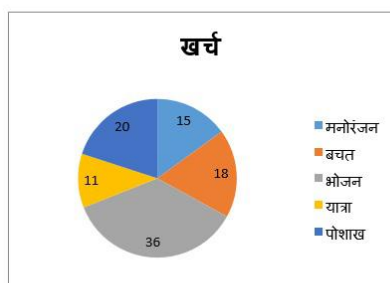
Question ID : 8970323174

Status : Answered

Chosen Option : 3

Q.6

निम्नलिखित पाई-चार्ट प्रति माह किसी व्यक्ति के खर्च का प्रतिशत वितरण दर्शाता है। पाई-चार्ट का अध्ययन करें और उस पर आधारित प्रश्न का उत्तर दें।



यदि यह व्यक्ति प्रति माह ₹95000 कमाता है, तो पोशाक पर उसका खर्च क्या है?

- Ans
- ☒ A. ₹21850
 - ☒ B. ₹17100
 - ☒ C. ₹10450
 - ☒ D. ₹19000

Question ID : 8970323171

Status : Answered

Chosen Option : 4

Q.7 उस वेन आरेख को पहचानें जो दिए गए आइटम वर्गों को सबसे अच्छी तरह से दर्शाता है।

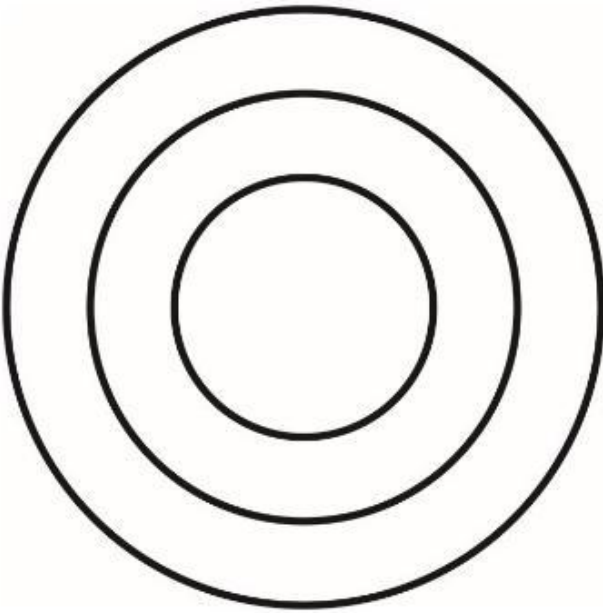
हिरण, भालू, स्तनपायी

Ans

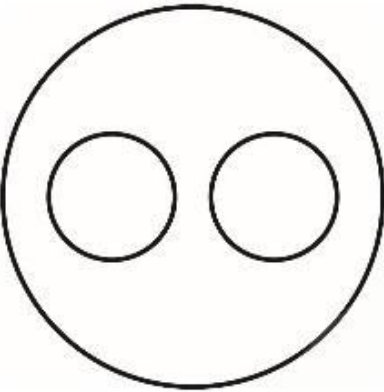
☒ A.

☒ B.

 C.



 D.



Question ID : 8970323189

Status : Answered

Chosen Option : 4

Q.8 निम्न तालिका का अध्ययन करें और उसके आधार पर प्रश्नों के उत्तर दें।

किसी कंपनी के मोबाइल फोन के विभिन्न मॉडलों का उत्पादन (लाख में) प्रति वर्ष दिए गए वर्षों में।

	A	B	C	D
2006	75	49	45	56
2008	48	60	57	78
2010	89	59	63	87
2012	57	79	74	92

2012 में मोबाइल फोन का औसत उत्पादन (लाख में) कितना था?

Ans  A. 63.75

 B. 54.25

 C. 61.5

 D. 75.5

Question ID : 8970323173

Status : Answered

Chosen Option : 4

Q.9 Select the option that will correctly replace the question marks (?) in the series.

9, 20, 42, 86, 174, ?

Ans ☒ A. 375

☒ B. 350

☒ C. 270

☒ D. 289

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Question ID : 8970323179

Status : Answered

Chosen Option : 2

Q.10 नीचे दिया गया प्रश्न दो कथनों का अनुसरण करता है। विश्लेषण करें और तय करें कि दिए गए कथनों से प्रश्न का उत्तर दिया जा सकता है या नहीं।

प्रश्न: क्या श्याम का जन्मदिन 26 जनवरी को है?

कथन I: श्याम का जन्म 1996 में सोमवार के दिन हुआ था।

कथन II: महीने में 31 दिन हैं।

Ans ☒ A. कथन I और II एक साथ पर्याप्त नहीं हैं

☒ B. केवल कथन I ही पर्याप्त है

☒ C. कोई भी कथन I और II पर्याप्त हैं

☒ D. केवल कथन II ही पर्याप्त है

Question ID : 8970323175

Status : Answered

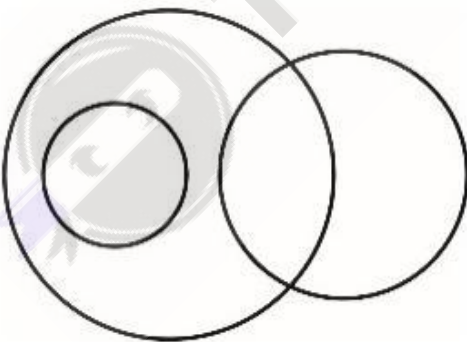
Chosen Option : 2

Q.11 Identify the Venn diagram that best represents the given item classes.

Students, Girls, Hockey Players

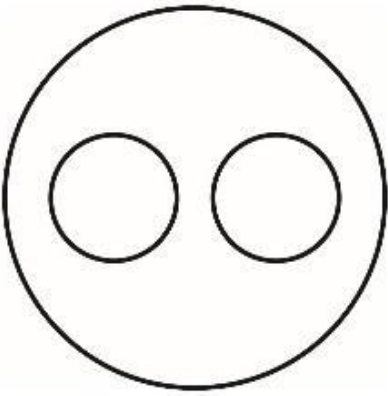
Ans

☒ A.

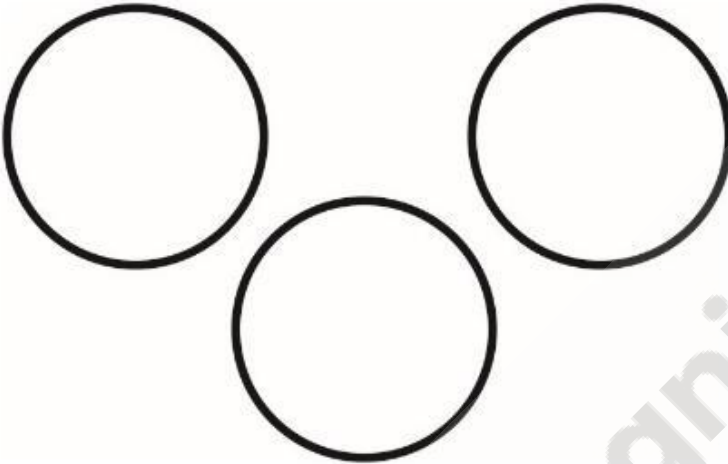


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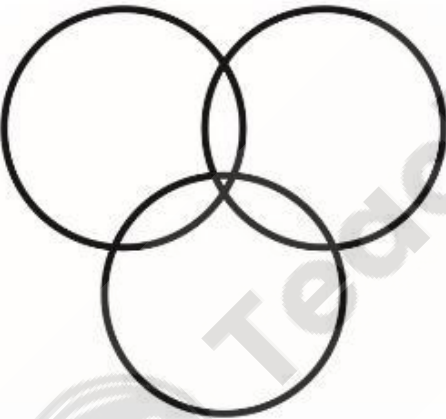
 B.



 C.



 D.



Question ID : 8970323188

Status : Answered

Chosen Option : 4

Q.12 Select the option that will correctly replace the question marks (?) in the series.

M, O, R, V, ?

Ans  A. Z

 B. A

 C. C

 D. B

Question ID : 8970323176

Status : Answered

Chosen Option : 2

Q.13 नीचे दिए गए दो कथन के बाद I और II लेबल के दो निष्कर्ष हैं। यह मानते हुए कि कथन की जानकारी सही है, यह निर्णय लें कि बयानों में दी गई जानकारी में से कौन सा निष्कर्ष तार्किक रूप से और निश्चित रूप से अनुसरण करता है।

कथन: सभी अंडे अपशिष्ट हैं।
सभी अपशिष्ट भोजन हैं।

निष्कर्ष I: कुछ भोजन अपशिष्ट हैं।
निष्कर्ष II: कुछ अपशिष्ट अंडे हैं।

- Ans
- ☒ A. केवल निष्कर्ष II अनुसरण करता है।
 - ☒ B. दोनों निष्कर्ष अनुसरण करते हैं।
 - ☒ C. न तो निष्कर्ष I और न ही निष्कर्ष II अनुसरण करता है।
 - ☒ D. केवल निष्कर्ष I अनुसरण करता है।

Question ID : 8970323185
Status : Answered
Chosen Option : 2

Q.14 उस विकल्प का चयन करें जो तीसरे शब्द से उसी तरह संबंधित है जैसे दूसरा शब्द पहले शब्द से संबंधित है।

पक्षी : चिड़ियाघर :: हवाई जहाज : ?

- Ans
- ☒ A. मधुवाटिका
 - ☒ B. संग्रहालय (म्यूजियम)
 - ☒ C. विमानशाला
 - ☒ D. कारवां

Question ID : 8970323181
Status : Answered
Chosen Option : 3

Q.15 नीचे दिया गया बार ग्राफ वर्षों के दौरान एक प्रकाशन कंपनी की तीन शाखाओं से पुस्तकों की बिक्री (हजार में) दिखाता है।



बीते वर्षों में कहानी की औसत बिक्री कितनी है?

- Ans
- ☒ A. 47
 - ☒ B. 44.6
 - ☒ C. 49
 - ☒ D. 56.3

Question ID : 8970323172
Status : Answered
Chosen Option : 2

Q.16 Which of the following interchange of signs would make the equation correct?

$$200 + 15 \div 6 \times 9 - 29 = 181$$

Ans

✓ A. \times and \div

✗ B. + and \div

✗ C. + and -

✗ D. \times and -

Question ID : 8970323180

Status : Answered

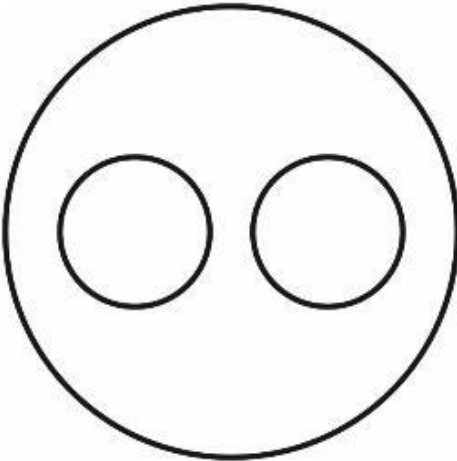
Chosen Option : 1

Q.17 उस वेन आरेख को पहचानें जो दिए गए आइटम वर्गों को सबसे अच्छी तरह से दर्शाता है।

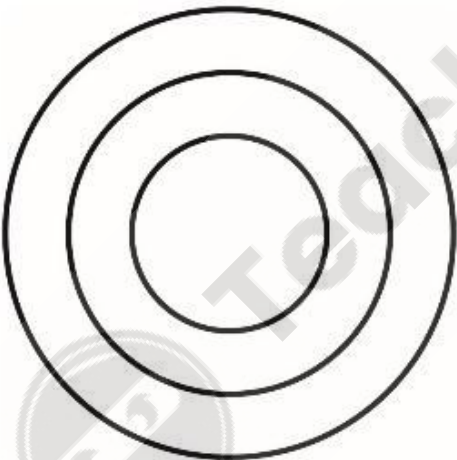
वृक्ष, झाड़ी, फल

Ans

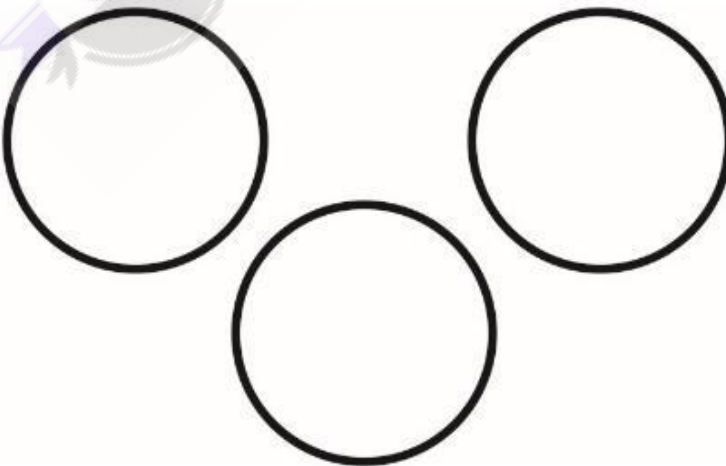
✗ A.



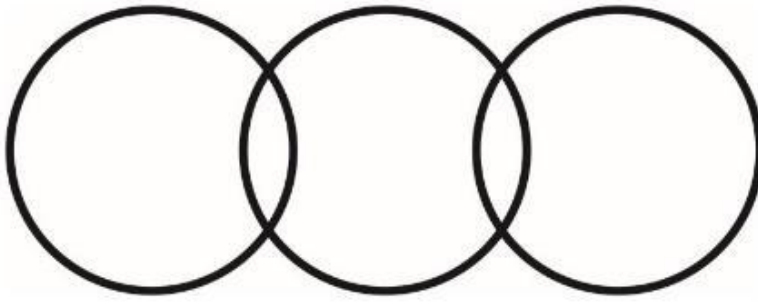
✗ B.



✓ C.



☒ D.



Question ID : 8970323187

Status : Answered

Chosen Option : 2

Q.18 Select the option that will correctly replace the question marks (?) in the series.

LG, NI, PL, RP, ?

Ans ☒ A. SU

☒ B. TV

☒ C. ST

☒ D. TU

Question ID : 8970323177

Status : Answered

Chosen Option : 4

Q.19 उस विकल्प का चयन करें जो तीसरे शब्द से उसी तरह संबंधित है जैसे दूसरा शब्द पहले शब्द से संबंधित है।

उग्र: हिंसक :: उतरना : ?

Ans ☒ A. मरम्मत करना

☒ B. पाबंदी

☒ C. नीचे आना

☒ D. गर्व

Question ID : 8970323182

Status : Answered

Chosen Option : 3

Q.20 रेशमा का मुख दक्षिण की ओर है, वह 90° पर बाएँ मुड़ती है और 300 m चलती है, फिर वह बाएँ मुड़ती है और 50 m चलती है और दोबारा बाएँ मुड़ती है और 250 m चलती है और अंत में वह दाएँ मुड़ती है और 400 m चलती है। उसका मुख अब किस दिशा की ओर है?

Ans ☒ A. उत्तर

☒ B. दक्षिण

☒ C. पूर्व

☒ D. पश्चिम

Question ID : 8970323186

Status : Answered

Chosen Option : 1

Section : General Hindi

Q.1 सही पर्यायवाची समूह पहचानिए:

- Ans ☒ A. तीर - इष्ट, शिलीमुख
☐ B. दूध - पय, तोय
☐ C. चाँदनी - शशि, इंदु
☐ D. कमल - नीरद, जलद

Question ID : 8970323193
Status : Answered
Chosen Option : 4

Q.2 'चरण कमल बंदों हरिराई' में अलंकार की पहचान करें:

- Ans ☐ A. उत्प्रेक्षा
☒ B. रूपक
☐ C. श्लेष
☐ D. यमक

Question ID : 8970323195
Status : Answered
Chosen Option : 2

Q.3 'गणतंत्र' का विपरीतार्थक शब्द बताइए:

- Ans ☐ A. परतंत्र
☒ B. राजतंत्र
☐ C. अभिजाततंत्र
☐ D. प्रजातंत्र

Question ID : 8970323192
Status : Answered
Chosen Option : 2

Q.4 दिए गए पद्यांश के आधार पर प्रश्न के उत्तर दीजिए।

छन्दक, उठ, ला निज वाजिराज,
तज भय-विस्मय, सज शीघ्र साज।
सुन, मृत्यु-विजय-अभियान आज।
मेरा प्रभात यह रात्रि-याम।
ओ क्षणभंगुर भव, राम राम!
वह जन्म-मरण का भ्रमण-भाण,
मैं देख चुका हूँ अपरिमाण।
निर्वाण-हेतु मेरा प्रयाण;
क्या वात-वृष्टि, क्या शीत-घाम।
ओ क्षणभंगुर भव, राम राम।

कविता नायक किसे त्यागने का आह्वान कर रहा है:

- Ans ☒ A. भय-विस्मय
☐ B. सुख-ऐश्वर्य
☐ C. साज-सज्जा
☐ D. शीत-घाम

Question ID : 8970323198
Status : Not Answered
Chosen Option : --

Q.5 'जहाँ खाना मुफ्त मिले' के लिए एक शब्द होगा:

- Ans ☒ A. सदाव्रत
☐ B. भोजनालय
☐ C. आश्रम
☐ D. मंदिर

Question ID : 8970323197

Status : Answered

Chosen Option : 3

Q.6 दिए गए पद्यांश के आधार पर प्रश्न के उत्तर दीजिए।

छन्दक, उठ, ला निज वाजिराज,
तज भय-विस्मय, सज शीघ्र साज।
सुन, मृत्यु-विजय-अभियान आज!
मेरा प्रभात यह रात्रि-याम।
ओ क्षणभंगुर भव, राम राम!
वह जन्म-मरण का भ्रमण-भाण,
मैं देख चुका हूँ अपरिमाण।
निर्वाण-हेतु मेरा प्रयाण;
क्या वात-वृष्टि, क्या शीत-घाम।
ओ क्षणभंगुर भव, राम राम!

'क्षणभंगुर भव' का क्या अर्थ है?

- Ans ☐ A. क्षण में नष्ट हो जाने वाला उन्माद
☒ B. क्षण में नष्ट हो जाने वाला संसार
☐ C. क्षण में नष्ट हो जाने वाली भावना
☐ D. क्षण में नष्ट हो जाने वाला विचार

Question ID : 8970323199

Status : Not Answered

Chosen Option : --

Q.7 'बाँधा था विधु को किसने इन काली जंज़ीरों से।

मणिवाले फणियों का मुख, क्यों भरा हुआ हीरों से' में कौन सा अलंकार है?

- Ans ☒ A. अतिशयोक्ति
☐ B. संदेह
☐ C. दृष्टांत
☐ D. विरोधाभास

Question ID : 8970323194

Status : Answered

Chosen Option : 1

Q.8 दिए गए पद्यांश के आधार पर प्रश्न के उत्तर दीजिए।

छन्दक, उठ, ला निज वाजिराज,
तज भय-विस्मय, सज शीघ्र साज।
सुन, मृत्यु-विजय-अभियान आज!
मेरा प्रभात यह रात्रि-याम।
ओ क्षणभंगुर भव, राम राम!
वह जन्म-मरण का भ्रमण-भाण,
मैं देख चुका हूँ अपरिमाण।
निर्वाण-हेतु मेरा प्रयाण;
क्या वात-वृष्टि, क्या शीत-घाम।

ओ क्षणभंगुर भव, राम राम!

यह पंक्तियाँ किस ऐतिहासिक घटना का उल्लेख कर रही हैं?

Ans



A. गौतम बुद्ध के महाभिनिष्क्रमण का



B. पाण्डवों के अज्ञातवास पर जाने का



C. राम के वन गमन का



D. महावीर स्वामी के गृह त्याग का

Question ID : 8970323200

Status : Not Answered

Chosen Option : --

Q.9 'जिसका कोई उद्देश्य न हो' शब्द समूह के लिए एक शब्द बताइए:

Ans



A. सउद्देश्य



B. उद्देश्य रहित



C. अनुद्देश्य



D. निरुद्देश्य

Question ID : 8970323196

Status : Answered

Chosen Option : 4

Q.10 विष्णुपदी, जाह्नवी, त्रिपथगा निम्न में से किसके पर्यायवाची शब्द हैं?

Ans



A. गंगा



B. सरस्वती



C. यमुना



D. नदी

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Question ID : 8970323191

Status : Not Answered

Chosen Option : --