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29 March 2022 Shift 1





UTTAR PRADESH POWER CORPORATION LTD.

Participant ID	
Participant Name	
Test Center Name	
Test Date	29/03/2022
Test Time	9:00 AM - 12:00 PM
Subject	Junior Engineer Trainee Electrical

Section : Domain Knowledge

Q.1 What is the reason for connecting a DC reactor in series with each pole of a converter station?

Ans ✓ A. To prevent commutation failures in the inverter

✗ B. To supply reactive power to the converter

✗ C. To increase the power transfer capability

✗ D. To improve system stability

Question ID : **75322911807**

Status : **Answered**

Chosen Option : **A**

Q.2 The given symbol is used for a:



- Ans
- ☒ A. heater
 - ☒ B. single electric lamp
 - ☒ C. buzzer
 - ☒ D. relay

Question ID : 75322911893

Status : Answered

Chosen Option : B

Q.3 Hay bridge is NOT accurate, if the value of 'Q' of the inductor being measured is:

- Ans
- ☒ A. more than 100
 - ☒ B. more than 1000
 - ☒ C. between 100 and 1000
 - ☒ D. less than 10

Question ID : 75322911855

Status : Answered

Chosen Option : D

Q.4 What should be the minimum size of a GI earth electrode for 15 hp motor?

- Ans**
- ☒ A. 90 cm × 60 cm × 3 mm
 - ☒ B. 30 cm × 30 cm × 6 mm
 - ☒ C. 60 cm × 60 cm × 3 mm
 - ☒ D. 60 cm × 60 cm × 6 mm

Question ID : **75322911795**

Status : **Answered**

Chosen Option : **D**

Q.5 For a transmission line, if L is the inductance and C is the capacitance per unit length of the line, then the surge impedance is expressed as:

- Ans**
- ☒ A. \sqrt{LC}
 - ☒ B. $\sqrt{\frac{L}{C}}$
 - ☒ C. $\sqrt{\frac{L}{2C}}$
 - ☒ D. $\sqrt{\frac{2L}{C}}$

Question ID : **75322911894**

Status : **Answered**

Chosen Option : **B**

Q.6 In PLC, _____ is an example of output module and _____ is an example of input module.

- Ans ☒ A. lamp; pushbutton
☒ B. pushbutton; switch
☒ C. alarm; lamp
☒ D. switch; alarm

Question ID : 75322911823

Status : Answered

Chosen Option : A

Q.7 The pick-up value of a relay is 7.5 A and the fault current in the relay coil is 30 A. Its plug-setting multiplier is _____.

- Ans ☒ A. 2
☒ B. 4
☒ C. 8
☒ D. 6

Question ID : 75322911819

Status : Answered

Chosen Option : B

Q.8 Find the slope of the tangent to the curve $y = \frac{2x}{(x^2+1)}$ at (0, 0).

- Ans ☒ A. 3
☒ B. 2
☒ C. -2
☒ D. 0

Question ID : 75322911883

Status : Answered

Chosen Option : B

Q.9 Two identical capacitors, each having a capacitance of $100\ \mu\text{F}$ are connected in parallel. Find the total capacitance of the parallel combination.

- Ans**
- ☒ A. $400\ \mu\text{F}$
 - ☒ B. $50\ \mu\text{F}$
 - ☒ C. $200\ \mu\text{F}$
 - ☒ D. $100\ \mu\text{F}$

Question ID : 75322911762

Status : Answered

Chosen Option : C

Q.10 Which of the following statements are true or FALSE?

1. Direct lightning strokes are very rare on the power system.
2. Most lightning strokes are due to positively charged clouds.

- Ans**
- ☒ A. 1 - False, 2 - True
 - ☒ B. 1 - True, 2 - True
 - ☒ C. 1 - False, 2 - False
 - ☒ D. 1 - True, 2 - False

Question ID : 75322911818

Status : Answered

Chosen Option : B

Q.11 Which of the following is NOT a characteristic of ACSR?

- Ans**
- ☒ A. Low maintenance
 - ☒ B. High mechanical strength
 - ☒ C. Low cost
 - ☒ D. High corona loss

Question ID : 75322911802

Status : Answered

Chosen Option : D

Q.12 The pressure of air in air blast circuit breakers should be of the order of:

- Ans
- ☒ A. 200 to 300 kg/cm²
 - ☒ B. less than 1 kg/cm²
 - ☒ C. 2 to 3 kg/cm²
 - ☒ D. 20 to 30 kg/cm²

Question ID : 75322911897

Status : Answered

Chosen Option : A

Q.13 Which of the following is NOT a valid advantage of bundled conductor?

- Ans
- ☒ A. Reduced radio interference
 - ☒ B. Reduced voltage gradient
 - ☒ C. Reduced cost of construction
 - ☒ D. Reduced surge impedance

Question ID : 75322911804

Status : Answered

Chosen Option : C

Q.14 The tolerance band of a colour-coded resistor having $\pm 10\%$ tolerance will be of _____ colour.

- Ans
- ☒ A. silver
 - ☒ B. golden
 - ☒ C. black
 - ☒ D. grey

Question ID : 75322911854

Status : Answered

Chosen Option : A

Q.15 The principle of operation of solar cell is _____ effect.

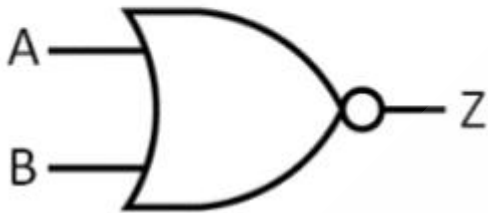
- Ans ☒ A. thermoelectric
☒ B. photovoltaic
☒ C. Piezoelectric
☒ D. skin

Question ID : 75322911800

Status : Answered

Chosen Option : B

Q.16 The given symbol is used for:



- Ans ☒ A. NOR gate
☒ B. NAND gate
☒ C. AND gate
☒ D. XOR gate

Question ID : 75322911885

Status : Answered

Chosen Option : A

Q.17 For an induction motor, which of the following starters is the cheapest?

- Ans
- ☒ A. Autotransformer starter
 - ☒ B. Stator resistance starter
 - ☒ C. Slip ring motor starter
 - ☒ D. Star-delta starter

Question ID : 75322911838

Status : Answered

Chosen Option : D

Q.18 When the soil moisture content reduces below _____, the resistivity of the earth increases sharply.

- Ans
- ☒ A. 20%
 - ☒ B. 5%
 - ☒ C. 50%
 - ☒ D. 75%

Question ID : 75322911833

Status : Answered

Chosen Option : A

Q.19 The eddy current losses in a synchronous motor are 100 watts at 100 Hz. Find the frequency, if the losses are to be reduced to 25 W?

- Ans
- ☒ A. 50 Hz
 - ☒ B. 200 Hz
 - ☒ C. 25 Hz
 - ☒ D. 400 Hz

Question ID : 75322911875

Status : Answered

Chosen Option : A

Q.20 Reluctance motor can be used in _____.

- Ans
- ☐ A. cranes
 - ☐ B. traction drives
 - ☒ C. electric timing devices
 - ☐ D. refrigerators

Question ID : 75322911832

Status : Answered

Chosen Option : C

Q.21 Which of the following is NOT a characteristic of organisational development?

- Ans
- ☐ A. It is a long-term approach.
 - ☐ B. It utilises systems thinking.
 - ☒ C. It is an unplanned change.
 - ☐ D. It is a dynamic process.

Question ID : 75322911868

Status : Answered

Chosen Option : C

Q.22 Which of the following gases is NOT emitted by oil powered vehicles?

- Ans
- ☐ A. Carbon monoxide
 - ☒ B. Oxygen
 - ☐ C. Sulphur dioxide
 - ☐ D. Carbon dioxide

Question ID : 75322911860

Status : Answered

Chosen Option : B

Q.23 The equation of the normal to the curves $y = \sin x$ at $(0, 0)$ is:

- Ans
- ☒ A. $x + y = 1$
 - ☒ B. $x + y = 0$
 - ☒ C. $x - y = 1$
 - ☒ D. $x - y = 0$

Question ID : 75322911751

Status : Answered

Chosen Option : B

Q.24 मैटलैब (MATLAB) में कमांड विंडो को _____ कमांड का उपयोग करके क्लियर किया जा सकता है।

- Ans
- ☒ A. Delete all
 - ☒ B. Clr
 - ☒ C. Clc
 - ☒ D. Clean all

Question ID : 75322911849

Status : Answered

Chosen Option : B

Q.25 A 3300/250 V, 50 Hz transformer has 75 turns on low voltage winding. Find the number of turns on high voltage winding.

- Ans
- ☒ A. 330
 - ☒ B. 990
 - ☒ C. 660
 - ☒ D. 1320

Question ID : 75322911781

Status : Answered

Chosen Option : B

Q.26 The energy consumed by a 50 kW motor loaded at 30 kW for 6 hours will be _____.

- Ans
- ☒ A. 120 kWh
 - ☒ B. 50 kWh
 - ☒ C. 300 kWh
 - ☒ D. 180 kWh

Question ID : 75322911813

Status : Answered

Chosen Option : D

Q.27 The internal resistance of an ideal ammeter and an ideal voltmeter are _____ and _____, respectively.

- Ans
- ☒ A. zero; zero
 - ☒ B. zero; infinite
 - ☒ C. infinite; zero
 - ☒ D. finite; finite

Question ID : 75322911756

Status : Answered

Chosen Option : B

Q.28 Which of the following features is INCORRECT for stepper motor?

- Ans
- ☒ A. Cost efficient
 - ☒ B. No feedback
 - ☒ C. Highly complex circuitry
 - ☒ D. Almost maintenance free

Question ID : 75322911774

Status : Answered

Chosen Option : B

Q.29 Static Kramer drive is an example of _____ scheme.

- Ans
- ☒ A. rotor resistance control
 - ☒ B. stator current control
 - ☒ C. stator voltage control
 - ☒ D. slip power recovery

Question ID : 75322911793

Status : Answered

Chosen Option : D

Q.30 Which of the following types of insulators is NOT suitable for a distribution system?

- Ans
- ☒ A. Suspension insulator
 - ☒ B. Pin insulator
 - ☒ C. Stay insulator
 - ☒ D. Shackle insulator

Question ID : 75322911845

Status : Answered

Chosen Option : A

Q.31 When a ball is dropped from a height, the correct sequence of energy transformation will be _____.

- Ans
- ☒ A. gravitational potential energy → kinetic energy → sound energy
 - ☒ B. kinetic energy → potential energy → sound energy
 - ☒ C. sound energy → kinetic energy → potential energy
 - ☒ D. potential energy → sound energy → kinetic energy

Question ID : 75322911889

Status : Answered

Chosen Option : A

Q.32 What should be the safety factor for pin type insulators?

- Ans**
- ☒ A. 1
 - ☒ B. 5
 - ☒ C. 10
 - ☒ D. 25

Question ID : **75322911808**

Status : **Answered**

Chosen Option : **B**

Q.33 Which of the following is the most commonly used method of PLC programming?

- Ans**
- ☒ A. Ladder diagram
 - ☒ B. Signal flow graph
 - ☒ C. Functional block diagram
 - ☒ D. Sequential flow chart

Question ID : **75322911872**

Status : **Answered**

Chosen Option : **A**

Q.34 Which of the following starters is the most cost effective for an induction motor?

- Ans**
- ☒ A. Stator resistance starter
 - ☒ B. Slip ring motor starter
 - ☒ C. Auto-transformer starter
 - ☒ D. Star-delta starter

Question ID : **75322911879**

Status : **Answered**

Chosen Option : **A**

Q.35 Manganin is an alloy of:

- Ans ☒ A. copper, manganese and nickel
☒ B. iron, manganese and zinc
☒ C. copper, aluminium and nickel
☒ D. aluminium, manganese and nickel

Question ID : **75322911765**

Status : **Answered**

Chosen Option : **A**

Q.36 What is the productivity for a company that produces 4 kg of plastic parts of acceptable quality by consuming 5 kg of raw material?

- Ans ☒ A. 0.8
☒ B. 0.6
☒ C. 0.2
☒ D. 0.4

Question ID : **75322911869**

Status : **Answered**

Chosen Option : **A**

Q.37 Middle management in an organisational structure includes the:

- Ans ☒ A. managing director
☒ B. workers
☒ C. departmental manager
☒ D. peons

Question ID : **75322911870**

Status : **Answered**

Chosen Option : **C**

Q.38 Potential energy = ?

- Ans
- ☒ A. mass \times velocity \times height
 - ☒ B. mass \times gravitational acceleration \times height
 - ☒ C. mass \times velocity \times displacement
 - ☒ D. density \times velocity \times height

Question ID : **75322911758**

Status : **Answered**

Chosen Option : **B**

Q.39 The rotor resistance and reactance of a 4-pole, 50 Hz, 3-phase slip ring induction motor are 0.4Ω and 4Ω per phase, respectively. Calculate the speed at maximum torque.

- Ans
- ☒ A. 950 RPM
 - ☒ B. 1150 RPM
 - ☒ C. 1250 RPM
 - ☒ D. 1350 RPM

Question ID : **75322911829**

Status : **Answered**

Chosen Option : **D**

Q.40 In electric braking, the braking energy is converted into _____ energy.

- Ans
- ☒ A. electrical
 - ☒ B. light
 - ☒ C. heat
 - ☒ D. chemical

Question ID : **75322911847**

Status : **Answered**

Chosen Option : **C**

Q.41 Which of the following is NOT a part of coal fired thermal power plant?

- Ans ☒ A. Condenser
☒ B. Chimney
☒ C. Moderator
☒ D. Turbine

Question ID : 75322911797

Status : Answered

Chosen Option : C

Q.42 _____ motor has the poorest speed regulation.

- Ans ☒ A. DC shunt
☒ B. DC series
☒ C. Cumulative compound DC
☒ D. Differential compound DC

Question ID : 75322911777

Status : Answered

Chosen Option : B

Q.43 An overcurrent relay having a current setting of 125% is connected to a supply circuit through a current transformer of ratio 400/10. The pick-up value will be:

- Ans ☒ A. 10 A
☒ B. 12.5 A
☒ C. 6.25 A
☒ D. 3.125 A

Question ID : 75322911820

Status : Answered

Chosen Option : B

Q.44 A stepper motor has 8 stator teeth and 6 rotor teeth. Find the step angle.

Ans  A. 15°

 B. 30°

 C. 7.5°

 D. 1.5°

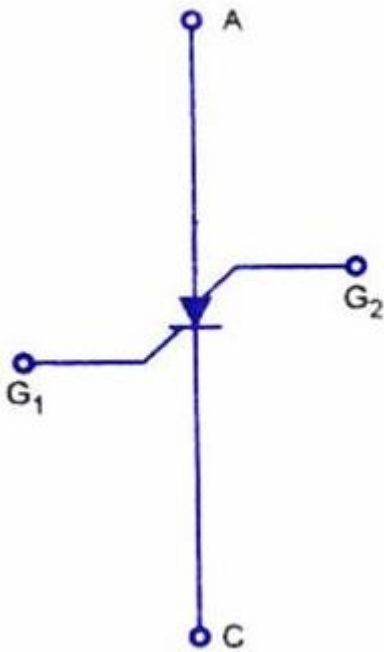
Question ID : 75322911775

Status : Answered

Chosen Option : A



Q.45 The given symbol is used for:



- Ans
- ✓ A. SCS
 - ✗ B. TRIAC
 - ✗ C. SCR
 - ✗ D. DAIC

Question ID : 75322911887

Status : Answered

Chosen Option : B

Q.46 A battery of 80 V with an internal resistance of $2\ \Omega$ is to be charged from 200 V mains.
Find the value of the series resistance for charging current of 5 A.

- Ans
- ☒ A. 20 Ω
 - ☒ B. 24 Ω
 - ☒ C. 22 Ω
 - ☒ D. 18 Ω

Question ID : 75322911785

Status : Answered

Chosen Option : C

Q.47 At 400 V and 50 Hz, the total core loss in a transformer is 2400 W. When the transformer is supplied at 200 V, 25 Hz, the core loss is 800 W. Find the hysteresis loss at 400 V, 50 Hz.

- Ans
- ☒ A. 1600 W
 - ☒ B. 1200 W
 - ☒ C. 1000 W
 - ☒ D. 800 W

Question ID : 75322911835

Status : Answered

Chosen Option : D



Q.48 The maximum permissible leakage current in any installation is _____ of full load current.

Ans

☒ A. $\frac{1}{10000}$

☒ B. $\frac{1}{500}$

☒ C. $\frac{1}{1000}$

☒ D. $\frac{1}{5000}$

Question ID : 75322911892

Status : Answered

Chosen Option : D

Q.49 Which of the following materials offers the highest dielectric strength?

Ans

☒ A. Dry paper

☒ B. Mica

☒ C. Asbestos

☒ D. Paraffin wax

Question ID : 75322911766

Status : Answered

Chosen Option : B

Q.50 In a _____ power plant, gravitational potential energy is converted into electrical energy.

Ans

☒ A. nuclear

☒ B. wind

☒ C. diesel

☒ D. hydroelectric

Question ID : 75322911812

Status : Answered

Chosen Option : D

Q.51 What will be the area under the curve $y = x^2$ and the lines $x = -2$, $x = 1$ and x-axis?

- Ans**
- ☒ A. 12 square units
 - ☒ B. 9 square units
 - ☒ C. 3 square units
 - ☒ D. 6 square units

Question ID : 75322911895

Status : **Answered**

Chosen Option : C

Q.52 The Q-factor of an RLC circuit is 5 at its resonance frequency of 2 kHz. Find the bandwidth of the circuit.

- Ans**
- ☒ A. 10 kHz
 - ☒ B. 400 Hz
 - ☒ C. 1 kHz
 - ☒ D. 200 Hz

Question ID : 75322911763

Status : **Answered**

Chosen Option : A

Q.53 Which of the following statements are true or FALSE?

1. Length of the zero vector is unity.
2. The zero vector has no direction.

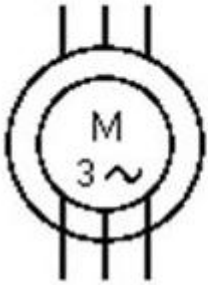
- Ans**
- ☒ A. 1 - False, 2 - True
 - ☒ B. 1 - False, 2 - False
 - ☒ C. 1 - True, 2 - False
 - ☒ D. 1 - True, 2 - True

Question ID : 75322911750

Status : **Answered**

Chosen Option : A

Q.54 The following symbol is used for:



- Ans
- ☒ A. DC compound motor
 - ☒ B. autotransformer
 - ☒ C. squirrel cage induction motor
 - ☒ D. wound rotor induction motor

Question ID : 75322911898

Status : Answered

Chosen Option : D

Q.55 Cost of fuel transportation is minimum in a _____ power plant and maximum in a _____ power plant.

- Ans
- ☒ A. steam; hydroelectric
 - ☒ B. diesel; nuclear
 - ☒ C. hydroelectric; steam
 - ☒ D. steam; nuclear

Question ID : 75322911798

Status : Answered

Chosen Option : C

Q.56 A Δ - Δ connected transformer is connected to V-V connected transformer. The ratio of VA rating of the V-V connected transformer and Δ - Δ connected transformer is:

Ans ☒ A. 0.777

☒ B. 0.577

☒ C. 0.677

☒ D. 0.877

Question ID : 75322911783

Status : Answered

Chosen Option : B

Q.57 Which of the following is NOT a pentavalent impurity?

Ans ☒ A. Arsenic

☒ B. Antimony

☒ C. Indium

☒ D. Phosphorus

Question ID : 75322911770

Status : Answered

Chosen Option : C



Q.58 What will be the differential function of $\log(x^2 + 2)$?

Ans

✓ A. $\frac{2x}{(x^2 + 2)} dx$

✗ B. $\frac{2x}{(x^2 - 2)} dx$

✗ C. $\frac{-2x}{(x^2 + 2)} dx$

✗ D. $\frac{-2x}{(x^2 - 2)} dx$

Question ID : 75322911882

Status : **Answered**

Chosen Option : **A**

Q.59 _____ को रोकने के लिए, सोल्डरिंग से पहले तार की प्री-टिनिंग (pre-tinning) की जाती है।

Ans

✗ A. पृष्ठीय क्षेत्रफल हानि (surface area loss)

✓ B. बर्ड केजिंग (bird caging)

✗ C. शिथिलन (weakening)

✗ D. ऊष्मीय द्रव्यमान (thermal mass)

Question ID : 75322911794

Status : **Answered**

Chosen Option : **B**

Q.60 Which of the following for HVDC transmission is INCORRECT?

- Ans ☒ A. No skin effect
☒ B. High corona loss
☒ C. Higher operating voltage
☒ D. Good voltage regulation

Question ID : 75322911806

Status : Answered

Chosen Option : B

Q.61 Bimetallic thermal overload relay is an example of a _____ sensing device.

- Ans ☒ A. temperature
☒ B. voltage
☒ C. power
☒ D. pressure

Question ID : 75322911878

Status : Answered

Chosen Option : A

Q.62 Which day is declared as 'World Ozone Day'?

- Ans ☒ A. 16 September
☒ B. 5 June
☒ C. 22 April
☒ D. 28 September

Question ID : 75322911787

Status : Answered

Chosen Option : A

Q.63 पीतल, _____ की मिश्र धातु है।

- Ans
- ☒ A. 60% तांबा और 40% लोहा
 - ☒ B. 40% तांबा और 60% जस्ता
 - ☒ C. 60% तांबा और 40% जस्ता
 - ☒ D. 40% तांबा और 60% लोहा

Question ID : 75322911764

Status : Answered

Chosen Option : C

Q.64 Which of the following is NOT a workspace in AutoCAD?

- Ans
- ☒ A. Drafting and annotation
 - ☒ B. 3D printing
 - ☒ C. 3D basics
 - ☒ D. 3D modelling

Question ID : 75322911852

Status : Answered

Chosen Option : B

Q.65 A 25 mv, 2 mA D'Arsonval movement is to be used in a voltmeter having full scale reading of 100 V. Find the resistance inserted by 100 V metre into the circuit.

- Ans
- ☒ A. 0.001 MΩ
 - ☒ B. 1.0 MΩ
 - ☒ C. 0.1 MΩ
 - ☒ D. 0.01 MΩ

Question ID : 75322911757

Status : Marked For Review

Chosen Option : C

Q.66 Snubber circuit consists of _____.

- Ans ☒ A. series combination of inductor and capacitor
☒ B. parallel combination of inductor and capacitor
☒ C. series combination of resistor and capacitor
☒ D. series combination of inductor and resistor

Question ID : 75322911791

Status : Answered

Chosen Option : C

Q.67 For transmission and distribution of electrical power, which of the following materials is preferred?

- Ans ☒ A. Nichrome
☒ B. Carbon
☒ C. Copper
☒ D. Tungsten

Question ID : 75322911844

Status : Answered

Chosen Option : C

Q.68 The sub-conductors of a bundled conductor are separated from each other by a distance of almost _____ or more.

- Ans ☒ A. 10 cm
☒ B. 15 cm
☒ C. 5 cm
☒ D. 30 cm

Question ID : 75322911803

Status : Answered

Chosen Option : D

Q.69 Which of the following materials has the highest dielectric strength?

- Ans ☒ A. Alumina
☒ B. Rubber
☒ C. Air
☒ D. Oil

Question ID : 75322911866

Status : Answered

Chosen Option : D

Q.70 The given symbol is used for:



- Ans ☒ A. stator resistance starter
☒ B. slip ring motor starter
☒ C. autotransformer starter
☒ D. star-delta starter

Question ID : 75322911891

Status : Answered

Chosen Option : C

Q.71 Which of the following bridges CANNOT be used for inductance measurement?

- Ans**
- ☒ A. Owen's bridge
 - ☒ B. Hay's bridge
 - ☒ C. Anderson's bridge
 - ☒ D. Kelvin's bridge

Question ID : 75322911761

Status : **Answered**

Chosen Option : D

Q.72 When a dielectric is placed in an electric field and if the electric field is increased, when the electric field exceeds the critical field, the dielectric loses its insulating property and becomes conducting. This is called:

- Ans**
- ☒ A. avalanche breakdown
 - ☒ B. reverse breakdown
 - ☒ C. Zener breakdown
 - ☒ D. dielectric breakdown

Question ID : 75322911857

Status : **Answered**

Chosen Option : D

Q.73 A 3-point starter is used to start _____ motors.

- Ans**
- ☒ A. shunt and compound
 - ☒ B. series and compound
 - ☒ C. series and shunt
 - ☒ D. only series

Question ID : 75322911839

Status : **Answered**

Chosen Option : A

Q.74 As per Indian Electricity rule, the recommended operating voltage for a long transmission line is _____ .

- Ans
- ☒ A. 0 to 20 kV
 - ☒ B. above 100 kV
 - ☒ C. 20 kV to 50 kV
 - ☒ D. 50 kV to 100 kV

Question ID : 75322911840

Status : Answered

Chosen Option : B

Q.75 If the voltage applied to a load is $100 \sin 500t$ and current through the load is $10 \sin(500t + 60^\circ)$, then the power consumed by the load is:

- Ans
- ☒ A. 750 W
 - ☒ B. 500 W
 - ☒ C. 250 W
 - ☒ D. 1000 W

Question ID : 75322911760

Status : Answered

Chosen Option : C

Q.76 The shape of the Normal Curve is _____ .

- Ans
- ☒ A. bell shaped
 - ☒ B. triangular
 - ☒ C. rectangular
 - ☒ D. circular

Question ID : 75322911753

Status : Answered

Chosen Option : A

Q.77 In a synchronous machine having a salient pole field structure, the pole shoe covers about _____ of the pole pitch.

- Ans**
- ☒ A. one-fourth
 - ☒ B. one-third
 - ☒ C. one half
 - ☒ D. two-thirds

Question ID : 75322911830

Status : **Answered**

Chosen Option : **D**

Q.78 A three-phase circuit breaker is rated at 1250 A, 1000 MVA, 33 kV. Find the service voltage.

- Ans**
- ☒ A. 100 kV
 - ☒ B. 66 kV
 - ☒ C. 11 kV
 - ☒ D. 33 kV

Question ID : 75322911768

Status : **Answered**

Chosen Option : **D**

Q.79 How many immobile contacts are there in a double-break oil circuit breaker?

- Ans**
- ☒ A. Eight
 - ☒ B. Two
 - ☒ C. One
 - ☒ D. Four

Question ID : 75322911817

Status : **Answered**

Chosen Option : **B**

Q.80 In a transformer at full load, _____ losses are zero.

- Ans**
- ☒ A. Eddy current
 - ☒ B. core
 - ☒ C. copper
 - ☒ D. friction

Question ID : **75322911834**

Status : **Answered**

Chosen Option : **D**

Q.81 Parallel connection of battery cells increases:

- Ans**
- ☒ A. current capacity
 - ☒ B. internal resistance
 - ☒ C. output voltage
 - ☒ D. efficiency

Question ID : **75322911784**

Status : **Answered**

Chosen Option : **A**

Q.82 If an instrument has zero drift, the magnitude of error will be:

- Ans**
- ☒ A. constant
 - ☒ B. unity
 - ☒ C. zero
 - ☒ D. unpredictable

Question ID : **75322911754**

Status : **Answered**

Chosen Option : **A**

Q.83 To operate two alternators in parallel, the _____ must be matched for them.

- Ans** ☒ A. frequency, phase sequence and voltage
☒ B. phase sequence
☒ C. voltage
☒ D. frequency

Question ID : **75322911873**

Status : **Answered**

Chosen Option : **A**

Q.84 Which type of chopper can be operated only in the second quadrant?

- Ans** ☒ A. Class B
☒ B. Class E
☒ C. Class A
☒ D. Class D

Question ID : **75322911862**

Status : **Answered**

Chosen Option : **A**

Q.85 Class C Chopper can be operated in:

- Ans** ☒ A. first and third quadrant
☒ B. second and third quadrant
☒ C. third quadrant only
☒ D. first and second quadrant

Question ID : **75322911792**

Status : **Answered**

Chosen Option : **D**

Q.86 The step angle for a stepper motor is 2° . If the stepping frequency is 3600 pulses per second, then the shaft speed is ____.

- Ans
- ☒ A. 200 rps
 - ☒ B. 20 rps
 - ☒ C. 3600 rps
 - ☒ D. 1800 rps

Question ID : 75322911859

Status : Answered

Chosen Option : B

Q.87 A 4-pole, 50 Hz, 3-phase induction motor runs at a speed of 1200 RPM. Find the slip.

- Ans
- ☒ A. 0.2
 - ☒ B. 0.15
 - ☒ C. 0.25
 - ☒ D. 0.1

Question ID : 75322911828

Status : Answered

Chosen Option : A

Q.88 AutoCAD was developed by ____.

- Ans
- ☒ A. Microsoft
 - ☒ B. Autodesk
 - ☒ C. Apple
 - ☒ D. Adobe

Question ID : 75322911851

Status : Answered

Chosen Option : B

Q.89 What is the colour of the neutral wire in a three-core flexible cable?

- Ans
- ☒ A. Black
 - ☒ B. Green
 - ☒ C. Yellow
 - ☒ D. Blue

Question ID : 75322911809

Status : Answered

Chosen Option : A

Q.90 IPCC (आईपीसीसी) का पूर्ण रूप क्या है?

- Ans
- ☒ A. International Peace and Climate Committee (इंटरनेशनल पीस एंड क्लाइमेट कमेटी)
 - ☒ B. Intergovernmental Panel on Climate Change (इंटरगवर्नमेंटल पैनल ऑन क्लाइमेट चेंज)
 - ☒ C. International Pollution and Climate Committee (इंटरनेशनल पॉल्यूशन एंड क्लाइमेट कमेटी)
 - ☒ D. Institute of Pollution and Climate Control (इंस्टिट्यूट ऑफ़ पॉल्यूशन एंड क्लाइमेट कंट्रोल)

Question ID : 75322911786

Status : Marked For Review

Chosen Option : C

Q.91 A cube having side 2 metres undergoes 1% increase in sides. Find the approximate change in the volume.

- Ans
- ☒ A. 1.2 m^3
 - ☒ B. 2.4 m^3
 - ☒ C. 0.12 m^3
 - ☒ D. 0.24 m^3

Question ID : 75322911884

Status : Answered

Chosen Option : D

Q.92 If $A = [1\ 0\ 5]$ and $B = [3\ 0\ 8]$, find $c = a * b$.

- Ans
- ☒ A. $[5\ 0\ 24]$
 - ☒ B. $[4\ 0\ 13]$
 - ☒ C. $[3\ 0\ 40]$
 - ☒ D. $[2\ 0\ 3]$

Question ID : 75322911850

Status : Answered

Chosen Option : C

Q.93 A two-input logic gate is giving low output when both the inputs are low. For all other input conditions, the output is high. Select the correct logic gate.

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

Question ID : 75322911858

Status : Answered

Chosen Option : A

Q.94 In a cable, the maximum dielectric stress is experienced at the _____.

- Ans
- ☒ A. surface of conductor
 - ☒ B. lead sheath
 - ☒ C. armour
 - ☒ D. bedding

Question ID : 75322911810

Status : Answered

Chosen Option : A

Q.95 After the Environmental Protection Act of 1986 was passed, _____ to get an environmental clearance for a project became mandatory.

- Ans
- ☒ A. an FIR
 - ☒ B. an EIA
 - ☒ C. a PIL
 - ☒ D. a PUC

Question ID : 75322911788

Status : Answered

Chosen Option : B

Q.96 The number of valence electrons in a Gallium atom is:

- Ans
- ☒ A. four
 - ☒ B. five
 - ☒ C. three
 - ☒ D. two

Question ID : 75322911769

Status : Answered

Chosen Option : C

Q.97 In a steam power plant, the economiser is used to heat _____.

- Ans
- ☒ A. feed water
 - ☒ B. steam
 - ☒ C. coal
 - ☒ D. air

Question ID : 75322911799

Status : Answered

Chosen Option : A

Q.98 For which type of DC generator is the terminal voltage at full load less than the no-load terminal voltage?

- Ans ☒ A. Level compound generator
☒ B. Under compound generator
☒ C. Over compound generator
☒ D. Flat compound generator

Question ID : 75322911779

Status : Answered

Chosen Option : B

Q.99 Which type of structure will there be in a pole mounted substation?

- Ans ☒ A. Y – type
☒ B. C – type
☒ C. H – type
☒ D. A – type

Question ID : 75322911837

Status : Answered

Chosen Option : C

Q.100 Polyphase wattmeters are made by attaching _____ electrodynameometer movements onto one shaft.

- Ans ☒ A. 3
☒ B. 4
☒ C. 2
☒ D. 5

Question ID : 75322911853

Status : Answered

Chosen Option : C

Q.101 Normal distribution is symmetric about _____.

- Ans ☒ A. standard variation
☒ B. mean
☒ C. covariance
☒ D. variance

Question ID : 75322911752

Status : Answered

Chosen Option : B

Q.102 निम्नलिखित में से कौन सा वेल्डेड जॉइंट (welded joints) के लिए एक अविनाशी (non-destructive) परीक्षण है?

- Ans ☒ A. बंकन परीक्षण (Bending test)
☒ B. संघट्ट परीक्षण (Impact test)
☒ C. एक्स-किरण परीक्षण (X-ray test)
☒ D. तनन परीक्षण (Tensile test)

Question ID : 75322911848

Status : Answered

Chosen Option : C

Q.103 In a single-phase half bridge inverter, the _____ load is the leading power factor load.

- Ans ☒ A. RLC overdamped
☒ B. RLC underdamped
☒ C. LC
☒ D. C

Question ID : 75322911846

Status : Answered

Chosen Option : D

Q.104 Which of the following is NOT an operation step in PLC?

- Ans
- ☒ A. Input scan
 - ☒ B. Program scan
 - ☒ C. Output scan
 - ☒ D. Power supply scan

Question ID : 75322911822

Status : Answered

Chosen Option : D

Q.105 The principle of the operation of the Merz price protection system is:

- Ans
- ☒ A. voltage balance
 - ☒ B. power balance
 - ☒ C. size balance
 - ☒ D. current balance

Question ID : 75322911877

Status : Answered

Chosen Option : D

Q.106 State whether the following statements are true or FALSE.

1. Interconnected power systems have higher diversity factor.
2. An interconnected power system is represented by an electrical grid.

- Ans
- ☒ A. Both the statements are false
 - ☒ B. Statement 1 is true, statement 2 is false
 - ☒ C. Statement 1 is false, statement 2 is true
 - ☒ D. Both the statements are true

Question ID : 75322911864

Status : Answered

Chosen Option : D

Q.107 Which of the following statements are true or FALSE?

1. The recommended colour of earth connection is green.
2. The size of the earth wire is determined by the ampere capacity of the service wires.

Ans ☒ A. 1 - True, 2 - False
☒ B. 1 - False, 2 - True
☒ C. 1 - True, 2 - True
☒ D. 1 - False, 2 - False

Question ID : 75322911796
Status : Answered
Chosen Option : A

Q.108 Starting from the transmission system side, the first equipment seen in the substation is a _____.

Ans ☒ A. capacitor bank
☒ B. current transformer
☒ C. circuit breaker
☒ D. lightening arrester

Question ID : 75322911836
Status : Answered
Chosen Option : C

Q.109 In case of strip earthing, if the electrode is made of copper, then its cross-sectional area should NOT be less than _____.

Ans ☒ A. 2.5 mm × 16 mm
☒ B. 25 mm × 1.6 mm
☒ C. 2.5 mm × 40 mm
☒ D. 25 mm × 4 mm

Question ID : 75322911863
Status : Answered
Chosen Option : D

Q.110 In an organisation, the corporate manager operates at the _____ level.

- Ans
- ☒ A. functional
 - ☒ B. top
 - ☒ C. middle
 - ☒ D. operational

Question ID : 75322911816

Status : **Marked For Review**

Chosen Option : C

Q.111 The density of SF_6 gas is:

- Ans
- ☒ A. one-fifth as compared to that of air.
 - ☒ B. twice as compared to that of air
 - ☒ C. one-third as compared to that of air
 - ☒ D. five times as compared to that of air

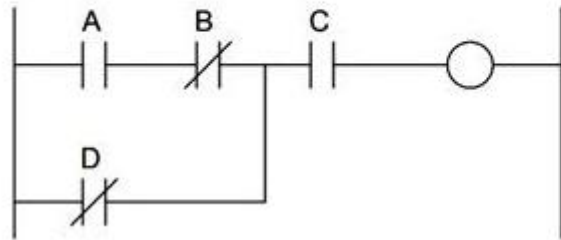
Question ID : 75322911871

Status : **Answered**

Chosen Option : D



Q.112 The Boolean function represented in the given PLC program is:



- Ans
- ☒ A. $ABC + BD$
 - ☒ B. $C + (A+B)D$
 - ☒ C. $C(AB + D)$
 - ☒ D. $ABC + D$

Question ID : 75322911886

Status : Answered

Chosen Option : C

Q.113 Highly conductive materials should have _____ flexibility and _____ cost.

- Ans
- ☒ A. high; low
 - ☒ B. low; high
 - ☒ C. high; high
 - ☒ D. low; low

Question ID : 75322911856

Status : Answered

Chosen Option : A

Q.114 The turn off time of an SCR is divided into two intervals, _____ time and _____ time.

Ans ☒ A. reverse recovery; gate recovery

☐ B. reverse recovery; spread

☐ C. gate recovery; spread

☐ D. rise; delay

Question ID : 75322911790

Status : Answered

Chosen Option : B

Q.115 Which type of single-phase induction motor is also called two value capacitor motor?

Ans ☐ A. Permanent split capacitor motor

☒ B. Capacitor start capacitor run motor

☐ C. Capacitor start motor

☐ D. Shaded pole motor

Question ID : 75322911827

Status : Answered

Chosen Option : B

Q.116 With the addition of tertiary winding, the Y-Y connection becomes _____ connection.

Ans ☐ A. Δ -Y- Δ

☒ B. Y- Δ -Y

☐ C. Δ -Y-Y

☐ D. Y-Y- Δ

Question ID : 75322911782

Status : Not Attempted and
Marked For Review

Chosen Option : --

Q.117 In a 3-phase, 6-pole star connected alternator, the stator has 90 slots and 8 conductors per slot. Find the number of stator conductors per phase.

- Ans ☒ A. 360
☒ B. 120
☒ C. 240
☒ D. 720

Question ID : 75322911826

Status : Answered

Chosen Option : C

Q.118 Which of the following methods is NOT a valid method for maintaining the voltage within limits in EHV transmission lines?

- Ans ☒ A. Shunt reactors
☒ B. Autotransformer tap-changing
☒ C. Synchronous condenser
☒ D. Shunt capacitor bank

Question ID : 75322911841

Status : Answered

Chosen Option : D

Q.119 The amount of copper used by a 3-wire distributor having the same maximum voltage to earth as compared to a 2-wire DC distributor is _____.

- Ans ☒ A. 33.3%
☒ B. 69.75%
☒ C. 66.7%
☒ D. 31.25%

Question ID : 75322911865

Status : Answered

Chosen Option : C

Q.120 Find the resistance, if the colour code on a resistor reads Brown, Black, Red, Gold.

- Ans ☒ A. $100\ \Omega \pm 5\%$
☒ B. $1000\ \Omega \pm 5\%$
☒ C. $100\ \Omega \pm 10\%$
☒ D. $1000\ \Omega \pm 10\%$

Question ID : **75322911755**

Status : **Answered**

Chosen Option : **B**

Q.121 The Government passed the AIR Act in _____, to clean up our air by controlling pollution.

- Ans ☒ A. 1981
☒ B. 1954
☒ C. 1986
☒ D. 1974

Question ID : **75322911789**

Status : **Answered**

Chosen Option : **C**

Q.122 Which of the following devices can be considered as an uncontrolled switch?

- Ans ☒ A. SCR
☒ B. TRIAC
☒ C. IGBT
☒ D. DAIC

Question ID : **75322911861**

Status : **Answered**

Chosen Option : **D**

Q.123 The programmable logic controller is classified into two types; _____ and _____.

- Ans ☒ A. fixed; modular
☒ B. local; remote
☒ C. automatic; manual
☒ D. actual; laboratory

Question ID : 75322911821

Status : Answered

Chosen Option : A

Q.124 In a DC motor, if the back emf vanishes suddenly, then:

- Ans ☒ A. the motor speed will reduce and finally stop
☒ B. the motor will continue to run with lower speed
☒ C. the armature may burn
☒ D. the motor will run in the reverse direction

Question ID : 75322911776

Status : Answered

Chosen Option : C

Q.125 In PLC, the amount of time that the entire program takes to execute is called _____ time.

- Ans ☒ A. scan
☒ B. dead
☒ C. delay
☒ D. rise

Question ID : 75322911773

Status : Answered

Chosen Option : A

Q.126 Which of the following is NOT a method of grapevine communication?

- Ans
- ☒ A. Single chain
 - ☒ B. Star chain
 - ☒ C. Policy circulars
 - ☒ D. Cluster chain

Question ID : 75322911815

Status : Answered

Chosen Option : A

Q.127 A 4-pole wave wound armature has 720 conductors and is rotated at 1000 RPM. Find the generated voltage, if the useful flux is 10 mWb.

- Ans
- ☒ A. 960 V
 - ☒ B. 120 V
 - ☒ C. 480 V
 - ☒ D. 240 V

Question ID : 75322911780

Status : Answered

Chosen Option : D

Q.128 For mass production, the most suitable layout is _____ layout.

- Ans
- ☒ A. fixed position
 - ☒ B. product
 - ☒ C. process
 - ☒ D. plant

Question ID : 75322911814

Status : Answered

Chosen Option : D

Q.129 Ampere-Turns is a unit of _____.

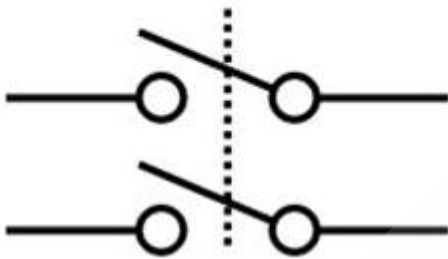
- Ans
- ☒ A. reluctance
 - ☒ B. magnetomotive force
 - ☒ C. permeability
 - ☒ D. flux density

Question ID : 75322911767

Status : Answered

Chosen Option : B

Q.130 The given symbol is used for:



- Ans
- ☒ A. DPST
 - ☒ B. SPST
 - ☒ C. DPDT
 - ☒ D. SPDT

Question ID : 75322911888

Status : Answered

Chosen Option : A

Q.131 In an AC circuit, the apparent power is 250 VA and active power is 200 W. Find the reactive power.

- Ans ☒ A. 50 Var
☒ B. 200 Var
☒ C. 100 Var
☒ D. 150 Var

Question ID : 75322911759

Status : Answered

Chosen Option : D

Q.132 Which of the following is a vector quantity?

- Ans ☒ A. Mass
☒ B. Length
☒ C. Velocity
☒ D. Voltage

Question ID : 75322911749

Status : Answered

Chosen Option : C

Q.133 Which of the following statements are true or FALSE?

1. In p-n-p transistor, majority charge carriers are holes.
2. Silicon is the preferred semiconductor as compared to Germanium.

- Ans ☒ A. 1 - True, 2 - False
☒ B. 1 - True, 2 - True
☒ C. 1 - False, 2 - True
☒ D. 1 - False, 2 - False

Question ID : 75322911771

Status : Marked For Review

Chosen Option : B

Q.134 If \vec{a} is a vector and 'c' and 'k' are non-zero scalars, then $(c + k) \vec{a} = ?$

- Ans
- ☒ A. Zero
 - ☒ B. Unity
 - ☒ C. $c \vec{a} + k \vec{a}$
 - ☒ D. $(c + \vec{a}) (k + \vec{a})$

Question ID : 75322911880

Status : Answered

Chosen Option : C

Q.135 With reference to the synchronous motor, which of the following statements are true or FALSE?

1. The percentage slip is always zero.
2. The speed regulation is always zero.

- Ans
- ☒ A. 1 - True, 2 - True
 - ☒ B. 1 - False, 2 - False
 - ☒ C. 1 - False, 2 - True
 - ☒ D. 1 - True, 2 - False

Question ID : 75322911831

Status : Answered

Chosen Option : A

Q.136 Which of the following is INCORRECT for electronic soft starters?

- Ans
- ☒ A. Higher maximum demand
 - ☒ B. Less mechanical stress
 - ☒ C. Improved power factor
 - ☒ D. Low mechanical maintenance

Question ID : 75322911867

Status : Answered

Chosen Option : A

Q.137 The insulation resistance of a cable of length 10 km is 0.5 MΩ. Find the resistance for 50 km length.

- Ans
- ☒ A. 2.5 MΩ
 - ☒ B. 12.5 MΩ
 - ☒ C. 0.5 MΩ
 - ☒ D. 0.1 MΩ

Question ID : 75322911811

Status : Answered

Chosen Option : D

Q.138 The area of the region bounded by the curve $3y^2 = x$, the y-axis and between $y = 2$ and $y = 4$ is:

- Ans
- ☒ A. 28 square units
 - ☒ B. 64 square units
 - ☒ C. 48 square units
 - ☒ D. 56 square units

Question ID : 75322911881

Status : Answered

Chosen Option : D

Q.139 The use of interpoles is very common to nearly all DC machines of _____.

- Ans
- ☒ A. more than 1 hp
 - ☒ B. more than 10 hp
 - ☒ C. less than 0.5 hp
 - ☒ D. less than 0.25 hp

Question ID : 75322911778

Status : Answered

Chosen Option : B

Q.140 Which of the following is NOT a valid advantage of cage rotor over wound rotor?

- Ans
- ☒ A. Low cost
 - ☒ B. Higher efficiency
 - ☒ C. High starting torque
 - ☒ D. Less maintenance

Question ID : 75322911874

Status : Answered

Chosen Option : C

Q.141 _____ is NOT a graphical programming language for the programmable logic controller.

- Ans
- ☒ A. Functional block diagram
 - ☒ B. Structured text
 - ☒ C. Sequential function chart
 - ☒ D. Ladder logic

Question ID : 75322911824

Status : Answered

Chosen Option : B

Q.142 Find the transmission loss of 10 kV single-phase transmission line, if it delivers 800 kW at 0.8 pf lagging. Given that line resistance and line reactance is $0.2\ \Omega$ and $2\ \Omega$, respectively.

- Ans
- ☒ A. 4 kW
 - ☒ B. 6 kW
 - ☒ C. 2 kW
 - ☒ D. 1 kW

Question ID : 75322911805

Status : Answered

Chosen Option : C

Q.143 The distance 's' metres covered by a body in t seconds, is given by $s = 3t^2 - 12t + 5$. The body will stop after _____ seconds.

- Ans**
- ☒ A. 12
 - ☒ B. 8
 - ☒ C. 2
 - ☒ D. 4

Question ID : **75322911896**

Status : **Answered**

Chosen Option : **C**

Q.144 Which of the following motors is suitable for 3D printing equipment?

- Ans**
- ☒ A. DC series motor
 - ☒ B. Squirrel cage induction motor
 - ☒ C. Stepper motor
 - ☒ D. DC compound motor

Question ID : **75322911876**

Status : **Answered**

Chosen Option : **C**



Q.145 If t_o = Optimistic time, t_p = Pessimistic time, and t_n = Most likely time, Probabilistic time is given by:

Ans

✓ A. $\frac{(t_o + t_p + 4t_n)}{6}$

✗ B. $\frac{(2t_o + t_p + t_n)}{4}$

✗ C. $\frac{(t_o + 2t_p + 3t_n)}{5}$

✗ D. $\frac{(t_o + t_p + t_n)}{3}$

Question ID : 75322911890

Status : **Not Answered**

Chosen Option : --

Q.146 Maximum power transfer will take place between two interconnected stations, if the angle between the voltage of the two is _____.

Ans ✗ A. 30°

✗ B. 75°

✗ C. 180°

✓ D. 90°

Question ID : 75322911801

Status : **Answered**

Chosen Option : **D**

Q.147 In a synchronous machine, the stator core is made up of _____.

- Ans
- ☒ A. cast iron
 - ☒ B. stainless steel
 - ☒ C. silicon steel laminations
 - ☒ D. cast steel

Question ID : 75322911825

Status : Answered

Chosen Option : C

Q.148 As per the standard electrical design and estimation, the numbers of 5 A and 15 A socket outlet for a dining room should be _____ and _____, respectively.

- Ans
- ☒ A. one; one
 - ☒ B. one; two
 - ☒ C. three; two
 - ☒ D. two; one

Question ID : 75322911843

Status : Answered

Chosen Option : D

Q.149 Which type of wiring is mostly preferred for temporary installations?

- Ans
- ☒ A. Conduit wiring
 - ☒ B. Cleat wiring
 - ☒ C. TRS wiring
 - ☒ D. Lead-sheathed wiring

Question ID : 75322911842

Status : Answered

Chosen Option : B

Q.150 Half adder circuit can be produced using a two-input _____ gate and a two-input _____ gate.

- Ans
- ☒ A. NOR; NAND
 - ☒ B. OR; NAND
 - ☒ C. XOR; AND
 - ☒ D. OR; AND

Question ID : 75322911772

Status : Answered

Chosen Option : C

Section : General Knowledge and Awareness

Q.1 जनवरी 2021 तक प्राप्त जानकारी के अनुसार, राजनैतिक दलों के संबंध में निम्नलिखित में से कौन सा कथन सही नहीं है?

- Ans
- ☒ A. राष्ट्रवादी कांग्रेस पार्टी एक क्षेत्रीय पार्टी है।
 - ☒ B. बहुजन समाज पार्टी एक राष्ट्रीय पार्टी है।
 - ☒ C. भारतीय कम्युनिस्ट पार्टी एक राष्ट्रीय पार्टी है।
 - ☒ D. ऑल इंडिया अन्ना डीएमके एक क्षेत्रीय पार्टी है।

Question ID : 75322911917

Status : Answered

Chosen Option : D



Q.2 15 दिसंबर, 2020 को संयुक्त राष्ट्र विकास कार्यक्रम द्वारा प्रकाशित मानव विकास सूचकांक रिपोर्ट के अनुसार, भारत की प्रति व्यक्ति सकल राष्ट्रीय आय 2019 में गिरकर _____ हो गई, जो 2018 में क्रय शक्ति समता (PPP) के आधार पर \$6,829 थी।

Ans ☒ A. \$6,571

☒ B. \$6,681

☒ C. \$6,791

☒ D. \$6,461

Question ID : 75322911908

Status : Not Answered

Chosen Option : --

Q.3 निम्नलिखित में से कौन बिहार के आरा का एक स्थानीय जमींदार था, जिसने 1857 के विद्रोह में भाग लिया था?

Ans ☒ A. शाह मल

☒ B. कुंवर सिंह

☒ C. मौलवी अहमदुल्ला शाह

☒ D. नाना साहिब

Question ID : 75322911901

Status : Answered

Chosen Option : B

Q.4 Who among the following was the first Indian woman cricketer to score ten thousand runs in International Cricket format?

Ans ☒ A. Punam Raut

☒ B. Shafali Verma

☒ C. Smriti Mandhana

☒ D. Mithali Raj

Question ID : 75322911900

Status : Answered

Chosen Option : D

Q.5 महात्मा ज्योतिराव फुले ने 'गुलामगिरी' नामक पुस्तक किस वर्ष लिखी थी?

Ans ☒ A. 1875

☒ B. 1873

☒ C. 1870

☒ D. 1871

Question ID : 75322911902

Status : Not Answered

Chosen Option : --

Q.6 चुनाव सुधारों से संबंधित दिनेश गोस्वामी समिति का गठन भारत सरकार द्वारा किस वर्ष किया गया था?

Ans ☒ A. 1993

☒ B. 1990

☒ C. 1985

☒ D. 1996

Question ID : 75322911918

Status : Not Answered

Chosen Option : --

Q.7 कौन सा खनिज तंत्रिकाओं, मांसपेशियों और हृदय के सुचारू ढंग से कार्य करने के लिए महत्वपूर्ण है और रक्तचाप के स्तर को कम करने में मदद करता है?

Ans ☒ A. आयोडीन

☒ B. पोटैशियम

☒ C. आयरन

☒ D. जिंक

Question ID : 75322911913

Status : Answered

Chosen Option : A

Q.8 Henry's law states that, at a constant temperature, the solubility of a gas in a liquid is directly proportional to the partial _____ of the gas present above the surface of the liquid or solution.

- Ans**
- ☒ A. temperature
 - ☒ B. volume
 - ☒ C. density
 - ☒ D. pressure

Question ID : **75322911915**
Status : **Answered**
Chosen Option : **D**

Q.9 बाबर ने किस उम्र में फ़रगना का सिंहासन संभाला था?

- Ans**
- ☒ A. 10 वर्ष
 - ☒ B. 12 वर्ष
 - ☒ C. 11 वर्ष
 - ☒ D. 13 वर्ष

Question ID : **75322911903**
Status : **Answered**
Chosen Option : **C**

Q.10 In which of the following states is the Hornbill festival celebrated?

- Ans**
- ☒ A. Mizoram
 - ☒ B. Andhra Pradesh
 - ☒ C. Nagaland
 - ☒ D. West Bengal

Question ID : **75322911905**
Status : **Answered**
Chosen Option : **C**

Q.11 केंद्रीय वक्फ परिषद, अल्पसंख्यक कार्य मंत्रालय के प्रशासनिक नियंत्रण के अधीन एक सांविधिक निकाय है। इसे _____ में स्थापित किया गया था।

Ans ☒ A. 1964

☒ B. 1960

☒ C. 1955

☒ D. 1961

Question ID : 75322911899

Status : Answered

Chosen Option : C

Q.12 निम्नलिखित में से कौन सा त्योहार आंध्र प्रदेश में नव वर्ष के दिन के रूप में मनाया जाता है?

Ans ☒ A. उगादी

☒ B. विशाखा उत्सव

☒ C. पोंगल

☒ D. लुंबिनी

Question ID : 75322911906

Status : Answered

Chosen Option : B

Q.13 निम्नलिखित में से किस नदी का उद्गम स्थल बद्रीनाथ के ऊपर सतोपंथ ग्लेशियर में स्थित है?

Ans ☒ A. अलकनंदा

☒ B. भागीरथी

☒ C. पेनगंगा

☒ D. वेनगंगा

Question ID : 75322911910

Status : Answered

Chosen Option : A

Q.14 2011 की जनगणना के अनुसार, 2001-2011 में जनसंख्या घनत्व में निरपेक्ष वृद्धि कितनी थी?

Ans ☒ A. 57

☒ B. 58

☒ C. 39

☒ D. 47

Question ID : 75322911912

Status : Not Answered

Chosen Option : --

Q.15 भारतीय संविधान का निम्न में से कौन सा अनुच्छेद जीवन और व्यक्तिगत स्वतंत्रता के संरक्षण से संबंधित है?

Ans ☒ A. अनुच्छेद 20

☒ B. अनुच्छेद 18

☒ C. अनुच्छेद 21

☒ D. अनुच्छेद 19

Question ID : 75322911916

Status : Answered

Chosen Option : C

Q.16 बरेल पर्वत श्रेणी किस राज्य में स्थित है?

Ans ☒ A. असम

☒ B. बिहार

☒ C. ओडिशा

☒ D. हिमाचल प्रदेश

Question ID : 75322911911

Status : Answered

Chosen Option : A

Q.17 जनता के पास मुद्रा के रूप में मौजूद धन और बैंक जमा के रूप में मौजूद धन का अनुपात _____ कहलाता है।

- Ans
- ☒ A. मुद्रा आरक्षित अनुपात (currency reserve ratio)
 - ☒ B. आरक्षित नकदी निधि अनुपात (cash reserve ratio)
 - ☒ C. आरक्षित जमा अनुपात (reserve deposit ratio)
 - ☒ D. मुद्रा जमा अनुपात (currency deposit ratio)

Question ID : 75322911907

Status : Answered

Chosen Option : B

Q.18 निम्नलिखित में से कौन सा रोग नियासिन की कमी के कारण होता है?

- Ans
- ☒ A. बेरीबेरी (Beriberi)
 - ☒ B. रिकेट्स (Rickets)
 - ☒ C. पेलाग्रा (Pellagra)
 - ☒ D. राइबोफ्लेविनहीनता (Ariboflavinosis)

Question ID : 75322911914

Status : Answered

Chosen Option : C

Q.19 भारतीय आयात-निर्यात बैंक की स्थापना किस वर्ष हुई थी?

- Ans
- ☒ A. 1980
 - ☒ B. 1981
 - ☒ C. 1983
 - ☒ D. 1982

Question ID : 75322911909

Status : Not Answered

Chosen Option : --

Q.20 नवाब वाजिद अली शाह द्वारा बनवाया गया सिकंदर बाग कहां स्थित था, जहां 1857 में कैपबेल के नेतृत्व में ब्रिटिश सेना ने 2000 से अधिक विद्रोही सिपाहियों की हत्या कर दी थी?

- Ans
- ☒ A. अवध
 - ☒ B. झांसी
 - ☒ C. दिल्ली
 - ☒ D. लखनऊ

Question ID : 75322911904

Status : Answered

Chosen Option : D

Section : Reasoning

Q.1 Select the correct combination of mathematical signs that can sequentially replace * signs from left to right to balance the following equation.

$$45 * 25 * 35 * 5 * 7 * 21$$

- Ans
- ☒ A. +, ×, ÷, -, =
 - ☒ B. -, ×, ÷, +, =
 - ☒ C. +, -, ÷, ×, =
 - ☒ D. +, -, ×, ÷, =

Question ID : 75322911935

Status : Answered

Chosen Option : C

Q.2 Among six friends, K, L, M, N, O and P, P is older than O, N is younger than L, K is younger than M, P is younger than K, and O is older than L. Who is older than O but younger than K?

Ans ☒ A. P

☒ B. N

☒ C. M

☒ D. L

Question ID : 75322911921

Status : Answered

Chosen Option : A

Q.3 P, Q, R, S, T, U and V are sitting in a straight line, all facing the same direction. P is third from the left end. V is fourth to the right of U. P is second to the left of Q. R is at one of the ends. S is just left of U. R is adjacent to V. Who is just left of Q?

Ans ☒ A. T

☒ B. P

☒ C. R

☒ D. S

Question ID : 75322911920

Status : Not Answered

Chosen Option : --

Q.4 किसी कूट भाषा में, यदि लाल को पेट्रोल कहा जाता है, पेट्रोल को प्लास्टिक कहा जाता है, प्लास्टिक को कार कहा जाता है, कार को सड़क कहा जाता है और सड़क को परदा कहा जाता है, तो उसी कूट भाषा में वाहनों के लिए ईंधन के रूप में किसका उपयोग किया जाता है?

Ans ☒ A. प्लास्टिक

☒ B. पेट्रोल

☒ C. सड़क

☒ D. कार

Question ID : 75322911927

Status : Answered

Chosen Option : A

Q.5 Select the option that is related to the third word in the same way as the second word is related to the first word.

Singapore : Asia :: Ukraine : ?

- Ans** ☒ A. Europe
☐ B. South America
☐ C. Australia
☐ D. Canada

Question ID : **75322911932**
Status : **Answered**
Chosen Option : **A**

Q.6 What approximate value should come in place of the question mark (?) in the following equation?

$$554.012 + 287.997 \div 11.9896 - 12.0245 \times 9.009 - 245.987 = ?$$

- Ans** ☐ A. 220
☐ B. 352
☐ C. 336
☒ D. 224

Question ID : **75322911934**
Status : **Answered**
Chosen Option : **D**



Q.7 Select the correct option that indicates the arrangement of the given words in the order in which they appear in an English dictionary.

1. Preposition
2. Precious
3. Preoccupation
4. Prejudice
5. Prevail

Ans ☒ A. 2, 4, 3, 5, 1
☒ B. 3, 4, 2, 1, 5
☒ C. 4, 2, 3, 1, 5
☒ D. 2, 4, 3, 1, 5

Question ID : **75322911925**

Status : **Answered**

Chosen Option : **D**

Q.8 Babita is standing in a park facing the north. Then, she turns 180° clockwise. After that, she turns 90° anticlockwise. Then, she turns 45° anticlockwise. She finally turns 90° anticlockwise. Which direction is she facing now?

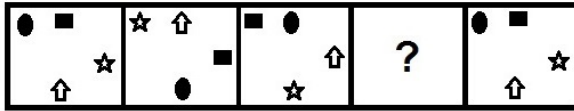
Ans ☒ A. North-west
☒ B. South-west
☒ C. North-east
☒ D. South-east

Question ID : **75322911929**

Status : **Answered**

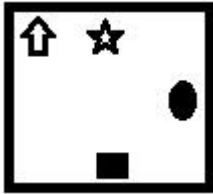
Chosen Option : **A**

Q.9 Select the figure from among the given options that can replace the question mark (?) in the following figure series.

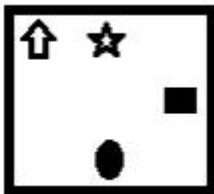


Ans

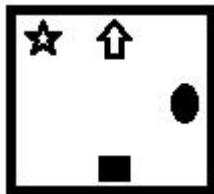
✓ A.



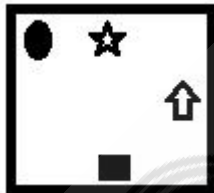
✗ B.



✗ C.



✗ D.

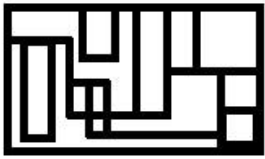


Question ID : 75322911936

Status : **Not Answered**

Chosen Option : --

Q.10 Select the option that is embedded in the given figure (rotation is NOT allowed).



Ans

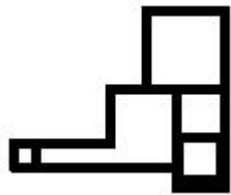
✗ A.



✗ B.



✓ C.



✗ D.



Question ID : 75322911938

Status : Answered

Chosen Option : C

Q.11 Pointing to the photograph of a woman, Manav said, “She is the mother of my wife’s daughter’s mother’s brother.” How is Manav related to the woman in the photograph?

- Ans**
- ☒ A. Brother’s wife
 - ☒ B. Mother-in-law
 - ☒ C. Mother
 - ☒ D. Sister

Question ID : 75322911930

Status : **Answered**

Chosen Option : B

Q.12 If $D < H < A$, $T < H = F$, and $A < V < N = P$, then which of the following conclusions is NOT correct?

- Ans**
- ☒ A. $P > A$
 - ☒ B. $H < N$
 - ☒ C. $D < F$
 - ☒ D. $A < T$

Question ID : 75322911924

Status : **Answered**

Chosen Option : D

Q.13 Nivya, Ravi, Zonita, Sanchi, Fatima and Suraj are sitting in a straight line facing the north direction. More than two persons are sitting between Nivya and Suraj. Zonita is to the immediate right of Nivya. Only Fatima is between Ravi and Nivya. Suraj is to the immediate left of Sanchi. Who is sitting at the third place from the left end?

- Ans**
- ☒ A. Fatima
 - ☒ B. Sanchi
 - ☒ C. Nivya
 - ☒ D. Ravi

Question ID : 75322911919

Status : **Answered**

Chosen Option : D

Q.14 Select the number from among the given options that can replace the question mark (?) in the following series.

11, 22, 35, 52, 71, 94, ?

Ans ☒ A. 123

☐ B. 156

☐ C. 120

☐ D. 131

Question ID : 75322911933

Status : Answered

Chosen Option : A

Q.15 निम्न अनुक्रम में ऐसी कितनी संख्याएँ हैं, जिनके ठीक पहले '&' और ठीक बाद एक 'स्वर' है?

6 & E 7 9 A & 4 E 3 * 4 K \$ & U & 4 E # A 4 & W A & 6 K & 9 G K & 7 A L + % & 6 E

Ans ☐ A. 5

☐ B. 3

☐ C. 6

☒ D. 4

Question ID : 75322911926

Status : Answered

Chosen Option : B

Q.16 In a code language, SERPENT is coded as 201451618519. How will NAVIGATE be coded in that language?

Ans ☐ A. 52017921113

☒ B. 52017922114

☐ C. 52118922114

☐ D. 14121971205

Question ID : 75322911928

Status : Not Answered

Chosen Option : --

Q.17 Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statements.

Statements:

All ministers are engineers.

All politicians are engineer.

All engineers are doctors.

Conclusions:

I. Some ministers are politicians.

II. No minister is a politician.

III. All ministers are doctors.

Ans  **A.** (Either conclusion I or II) and III follow

 **B.** Only conclusion I and III follow

 **C.** Only conclusion I follows

 **D.** Only conclusion II and III follow

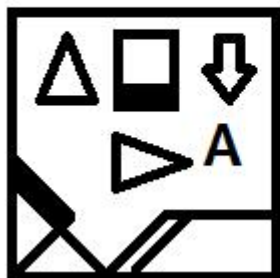
Question ID : **75322911923**

Status : **Answered**

Chosen Option : **A**



Q.18 Select the correct water image of the given figure.

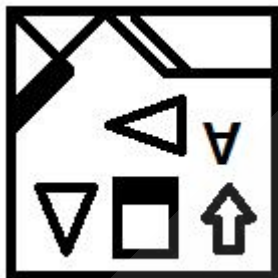


Ans

✗ A.



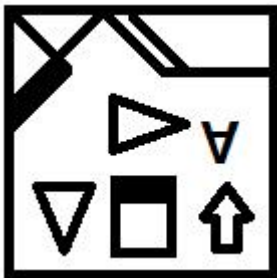
✗ B.



✗ C.



✓ D.



Question ID : 75322911937

Status : Answered

Chosen Option : D

Q.19 'A + B' means 'A is the sister of B'
'A @ B' means 'A is the son of B'
'A # B' means 'A is the father of B'
'A % B' means 'A is the daughter of B'

If H # K # U + T @ M % G + N, then how is G related to U?

Ans ✗ A. Paternal grandmother

✓ B. Maternal grandmother

✗ C. Paternal grandfather

✗ D. Maternal grandfather

Question ID : 75322911931

Status : Answered

Chosen Option : B

Q.20 An uncertain number of persons are sitting in a line facing the same direction. D is to the immediate left of A. Five persons sit between G and H. Two persons sit between E and F. Five persons sit between B and E. D is at the left end of the line. H is at the other end. Three persons sit between A and B. F is to the immediate left of G. E, B and A are towards the left of F. How many persons are sitting in the line?

Ans ☒ A. 26

☒ B. 29

☒ C. 22

☒ D. 32

Question ID : 75322911922

Status : Not Answered

Chosen Option : --

Section : General Hindi

Q.1 निम्नलिखित में कौन सा विकल्प 'अर्थ' के अनुसार क्रियाविशेषण का भेद नहीं है?

Ans ☒ A. श्रेणिवाचक

☒ B. संबंधवाचक

☒ C. तुलनावाचक

☒ D. पर्याप्तिवाचक

Question ID : 75322911941

Status : Answered

Chosen Option : D

Q.2 'हाथ' का पर्यायवाची शब्द कौन सा है?

Ans ☒ A. नग

☒ B. शार्दूल

☒ C. पाणि

☒ D. पतंग

Question ID : 75322911947

Status : Answered

Chosen Option : C

Q.3 'विपत्ति' का विलोम क्या होगा?

- Ans ☒ A. संपत्ति
☒ B. सुमति
☒ C. सम्मति
☒ D. आपत्ति

Question ID : 75322911948

Status : Answered

Chosen Option : A

Q.4 'उत्तम पुरुष' के अंतर्गत कौन आता है?

- Ans ☒ A. श्रोता और पाठक
☒ B. श्रोता
☒ C. वक्ता
☒ D. पाठक

Question ID : 75322911944

Status : Answered

Chosen Option : C

Q.5 'ज्ञानी आदमी गंभीर होता है' अर्थ के लिए उपयुक्त लोकोक्ति कौन सी है?

- Ans ☒ A. बड़े बोल का सिर नीचा
☒ B. भरी गगरिया चुपके जाय
☒ C. बड़ों के कान होते हैं, आँखें नहीं
☒ D. भैंस के आगे बीन बजाए, भैंस खड़ी पगुराय

Question ID : 75322911946

Status : Answered

Chosen Option : B

Q.6 'सब नदियाँ' में 'सब' किस प्रकार का विशेषण है?

Ans ☒ A. अनिश्चित संख्यावाचक

☐ B. परिमाणबोधक

☐ C. निश्चित संख्यावाचक

☐ D. सार्वनामिक

Question ID : 75322911942

Status : Answered

Chosen Option : D

Q.7 निम्नलिखित में से कौन सा विकल्प 'अन्य पुरुष' है?

Ans ☐ A. तुम

☒ B. वह

☐ C. मैं

☐ D. हम

Question ID : 75322911943

Status : Answered

Chosen Option : B

Q.8 'सिपाही रात को पहरा देता है।' वाक्य में कौन सा काल है?

Ans ☐ A. संदिग्ध वर्तमान

☐ B. संभाव्य वर्तमान

☐ C. पूर्ण वर्तमान

☒ D. सामान्य वर्तमान

Question ID : 75322911939

Status : Answered

Chosen Option : D

Q.9 'आज सबेरे मैं आपके यहाँ गया था।' वाक्य में कौन सा काल है?

- Ans
- ☒ A. अपूर्ण भूत
 - ☒ B. पूर्ण भूत
 - ☒ C. आसन्न भूत
 - ☒ D. सामान्य भूत

Question ID : 75322911940

Status : Answered

Chosen Option : C

Q.10 'हवाई किले बनाना' मुहावरे का सही अर्थ क्या है?

- Ans
- ☒ A. ऐतिहासिक महत्व का कार्य करना
 - ☒ B. मात्र कल्पना करते रहना
 - ☒ C. विलक्षण कार्य करना
 - ☒ D. कमजोर महल बनाना

Question ID : 75322911945

Status : Answered

Chosen Option : B

