UPPCL JE EE

Previous Year Paper 28 March 2022 Shift 2





Participant ID	
Participant Name	
Test Center Name	
Test Date	28/03/2022
Test Time	2:30 PM - 5:30 PM
Subject	Junior Engineer Trainee Electrical

Section: Domain Knowledge

Q.1 In this underground cable laying system, conduit or duct of glazed stone or cast iron or concrete are laid in the ground with manholes at suitable positions along the cable route. The cables are then pulled into position from manholes. What is this system?

Ans

X A. Traying2 system

X B. Direct laying

C. Draw in system

X D. Solid system

Question ID: 75322911656

Status: Answered

	What physical change will happen to the cathode of the	lead acid battery on charging?
Ans		
	B. The colour will change to slightly white.	
	C. The colour will change to chocolate brown.	
	D. The colour will change to grey.	
		Question ID : 75322911578 Status : Answered
		Chosen Option : D
Q.3	A lap connected DC generator has 8 poles and 150 slot	
	slot. If the flux per pole is 0.05 Wb, find the EMF genera RPM.	ted when the speed is 800
Ans	X A. 1600 V	
	X B. 400 V	
	✓ C. 800 V	
	X D. 3200 V	3
		Question ID : 75322911574
		Status : Answered
		Chosen Option : C
Q.4	In earlier days, little attention was paid to the motivation	nal content of work. When was
	the importance of the human relations discovered?	
Ans		
	X B. 1827-1832	
	✓ C. 1927-1932	
	X D. 1837-1842	
	100	
		Question ID : 75322911609
		Status : Answered Chosen Option : C
		Onosch Option . •

Q.5	Good oil in the oil CB of a transformer must withstand certain voltage for in a standard oil testing cup with 0.15-inch gap between electrodes. How voltage?	
Ans	★ A. 40 kV	
	★ B. 20 kV	
	✓ C. 30 kV	
	★ D. 10 kV	
		Question ID : 75322911664 Status : Answered Chosen Option : C
Q.6 Ans	Which of the following is NOT a continuous random variable? A. The tossing of a coin	Clos
	X B. Weight	
	★ C. Temperature	
	➤ D. The lifetime of an electric bulb	
	Political Participation of the Control of the Contr	Question ID : 75322911551 Status : Answered Chosen Option : A
Q.7 Ans	Which of the following points are internal causes of overvoltage? A. Switching Surges, Insulation Failure, Arcing Ground and Resonance	
	➤ B. Switching Surges, Insulation Failure, Lightning and Resonance	
	C. Switching Surges, Lightning, Arcing Ground and Resonance	
	X D. Switching Surges, Insulation Failure, Arcing Ground and Lightning	
	RO.	Question ID : 75322911615 Status : Answered Chosen Option : A

Q.8 Day tank is associated with the fuel supply system of which of the following power generation systems?

Ans

A. Diesel power plant

X B. Hydroelectric power plant

X C. Steam power plant

X D. Gas turbine power plant

Question ID: 75322911595

Status: Answered

Chosen Option: A

Q.9 Which of the following is NOT true for an outdoor substation in the power distribution system?

Ans

A. The time required for the erection is more.

X B. The cost of installation is more.

X C. More space is required for the erection.

X D. The dust and dirt are deposited over the equipment.

Question ID: 75322911632

Status: Answered

Chosen Option: A

Q.10 Which of the following does NOT help in product forecasting?

Ans

X A. Consideration of current events

B. Production capability

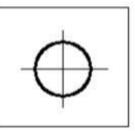
X C. Future developments

X D. Analysis of past data

Question ID : **75322911657**

Status : **Answered**

Q.11



The given Lissajous pattern is observed in CRO.

What is the phase difference of the applied signals?

Ans

✓ A. 90° or 270°

× B. 180°

★ C. 30° or 330°

X D. 0°

Question ID: 75322911693

Status : **Answered**

Chosen Option : A

Q.12 Which component in a nuclear power plant reduces the speed of the neutron by absorbing its energy?

Ans

X A. Shielding

X B. Control rod

X C. Coolant

D. Moderator

Question ID: 75322911652

Status: Answered

C. Unipolar link D. Homopolar link Question ID: 75322911601 Status: Answered Chosen Option: D Q.14 After the SCR is latched on, a certain minimum value of anode current is needed to	
Question ID : 75322911601 Status : Answered Chosen Option : D Q.14 After the SCR is latched on, a certain minimum value of anode current is needed to	
Question ID : 75322911601 Status : Answered Chosen Option : D Q.14 After the SCR is latched on, a certain minimum value of anode current is needed to	
Status : Answered Chosen Option : D Q.14 After the SCR is latched on, a certain minimum value of anode current is needed to	
Q.14 After the SCR is latched on, a certain minimum value of anode current is needed to	
maintain conduction. If the anode current is reduced below this minimum value, the SCR will turn OFF. What is this current called?	
Ans X A. Surge current	
➤ B. Peak repetitive forward blocking voltage	
C. Holding current	
D. Latching current	
Question ID : 75322911586 Status : Answered Chosen Option : C	
Q.15 Which type of motor is used for the improvement of the power factor in case the static capacitor is expensive for the power system?	
Ans X A. DC compound motor	
➤ B. Three-phase induction motor	
C. DC shunt motor	
D. Synchronous motor	
Question ID : 75322911624 Status : Answered Chosen Option : D	

Q.13 In which type of DC-link configuration are poles operated in parallel which reduces the

Ans	X A. Rmdir	
	✗ B. Cd	
	C. Dir	
	✓ D. Pwd	
		Question ID : 75322911639
		Status : Not Attempted and Marked For Review
		Chosen Option :
	What is the reason that, both AC and DC values can be measure instruments?	ed with moving iron
Ans	X A. The current flows in both directions	
	X B. There is no magnetic effect	
	★ C. The polarity reverses automatically	
	D. The deflection is proportional to the square of the current	
		Question ID : 75322911554
		Status : Answered Chosen Option : D
		Gridaeri Option : B
Q.18	Sinusoidal voltages applied to X and Y plates of a CRO is having 90°. Which Lissajous pattern will be formed in the CRO screen?	g a phase difference of
Ans	A. Straight line in quadrants 1 and 3	
	✓ B. Circle, covering all 4 quadrants equally	
	C. Straight line in quadrants 2 and 4	
	D. Ellipse in quadrants 1 and 3	
	D. Ellipse in quadrants 1 and 3	
	A	Question ID : 75322911559
	*	Status : Answered
		Chosen Option : B

Q.16 What is the command for 'Identify current directory' in MATLAB?

Q.19 What is the main application of long time over current relays? X A. For rapid short-circuit current drops Ans

B. As backup earth fault protection

X C. As protection of distribution feeders

X D. Where the fault magnitude is mainly dependent on the system generating capacity at the time of fault

Question ID: 75322911665

Status: Answered

Chosen Option: B

Find the probability of the binomial distribution whose mean is 3 and variance is 2.

Ans

X A.
$$\frac{1}{6}$$

✓ C.
$$\frac{1}{3}$$

Question ID: 75322911674 Status: Answered

Q.21	Which of the following is used for starting high intensity Metal Halic vapour lamps?	de and Sodium
Ans	X A. Illuminance	
	X B. Ballast	
	C. Luminaire	
	✓ D. Igniters	
		Question ID : 75322911631 Status : Answered Chosen Option : D
Q.22	Which of the following is widely used for switching off power signal breaker?	Is as a static circuit
Ans	X A. TRIAC	
	✓ B. Thyristor	
	C. Tunnel diode	
	X D. DIAC	
	Solding Solding	Question ID : 75322911588 Status : Not Answered Chosen Option :
Q.23	Where can we employ high resistance methods of arc extinction?	
Ans	X A. Only in AC circuit breakers	
	B. In DC circuit breakers and low-capacity AC circuit breakers	
	C. Only in DC circuit breakers	
	➤ D. In AC circuit breakers and low-capacity DC circuit breakers	
	P.O.	Question ID : 75322911613 Status : Answered Chosen Option : B

	★ B836	
	× C866	
	✓ D961	
		Question ID : 75322911660
		Status : Answered
		Chosen Option : D
Q.25	The energy available due to the difference in water temperature (be of the tropical ocean and at a deeper level) is known as Ocean the What is the minimum temperature required for operating OTE pow	mal energy (OTE).
Ans	X A. 50° C	O.
	✓ B. 20° C	
	★ C. 100° C	5
	X D. 10° C	
		Question ID : 75322911581
		Status : Answered
		Chosen Option : B
Q.26	Which of the following is NOT true for wave winding?	
Ans		
	✓ B. No. of parallel paths = No. of poles.	
	★ C. The back pitch is equal to the front pitch.	
	➤ D. The back pitch and front pitch should be odd.	
	0	
		Question ID : 75322911573
		Status : Answered
		Chosen Option : B

Q.24 A 4-pole, 3-phase star connected alternator has 48 slots. The coil span is 150 electrical degrees. Determine the distribution factor.

X A. .931

Ans

Q.27 Which tool is used for the movement of a component, tag, wire number etc. along the connected wire in AutoCAD?

Ans X A. Deviate tool from the Transform Component drop-down

X C. Move tool from the Transform Component drop-down

X D. Transfer tool from the Transform Component drop-down

Question ID: 75322911641

Status: Answered

Chosen Option: B

Q.28 Which type of heating is normally used for hardening, annealing and tempering of machine parts?

Ans X A. Indirect resistance heating

B. Eddy current heating

C. Direct arc heating

D. Infrared heating

C. Direct arc neating

Question ID: 75322911637

Status: Answered

Chosen Option: B

Q.29 What is the measure of maximum disruptive stress with an overhead transmission system?

Ans X A. The maximum voltage between parallel running conductors

X B. The size of the conductor

C. The maximum voltage between conductor and earth

X D. Insulation between parallel running conductors

Question ID: 75322911598

Status : **Answered**

Q.30 Which of the following is NOT true for metal arc welding? Ans X A. The electric supply is connected between an electrode and a workpiece. B. Only DC supply can be used. X C. No need for filler material. X D. The electrode also serves the purpose of a filter. Question ID: 75322911638 Status: Answered Chosen Option: B Q.31 What is the output voltage of the distribution transformer? X A. 33 kV Ans X B. 132 kV X C. 11 kV ✓ D. 400 V Question ID: 75322911597 Status: Answered Chosen Option: D Q.32 Which of the following is NOT true for a three-phase transformer? X A. It is slightly more efficient. Ans X B. It is cheaper. C. It takes more space. X D. It has a three-limbed core. Question ID: 75322911576 Status: Answered Chosen Option: C

Q.33 What is the ultimate objective of industrial management?

Ans X A. To make the best qualities of finished goods.

X B. To make the industry maximum profitable.

X C. To make the maximum quantity of production.

D. to produce the right quantity of right quality goods at the right time.

Question ID: 75322911610

Status : Answered

Chosen Option : D

Q.34 Which of the following is NOT true for AC power transmission?

Ans AC voltage can be stepped up or stepped down by transformers with ease and efficiency.

B. AC power can be generated at high voltages.

X

C. The maintenance of AC sub-stations is easy and cheaper

✓ D. AC line requires less copper than a DC line.

Question ID: 75322911599

Status : Answered

Chosen Option: D

Q.35 Which of the following may be defined as the voltage that appears across the breaking contact at the instant of arc extinction?

Ans 🥒

A. Restriking voltage

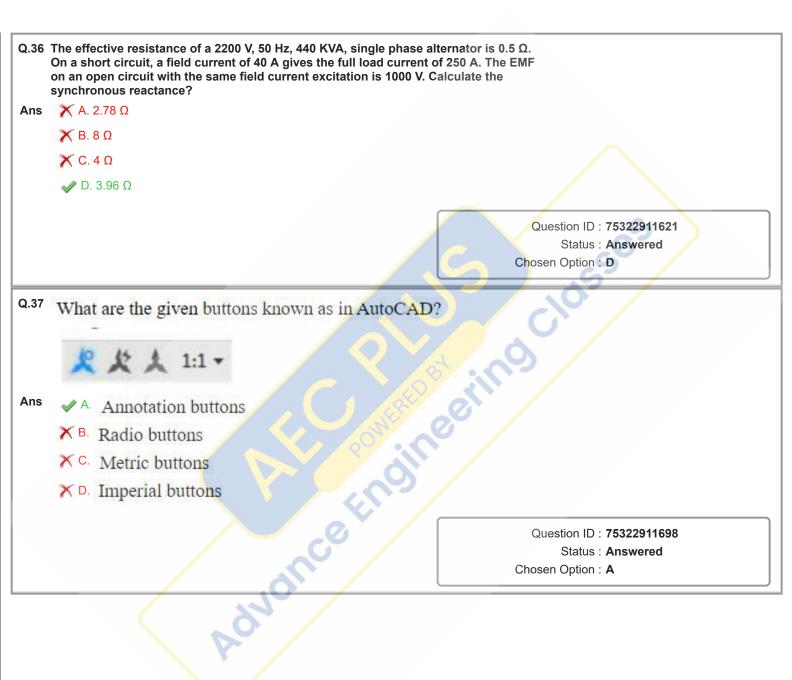
X B. Arc voltage

X C. Recovery voltage

X D. Active recovery voltage

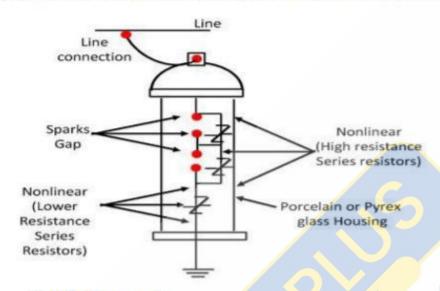
Question ID: 75322911614

Status : **Answered**





Q.39 Select the correct type of lightening arrester from the given figure.



Ans XA. Oxide film arrester

✗ B. Expulsion type lightning arrester

★ C. Metal oxide lightning arrester/gapless lighting arrester

✓ D. Valve type lightning arrester

Question ID: 75322911697

Status : **Answered**

Q.40	Which of the following is defined as the distant conductors in which a coil advances on the bacommutator)	
Ans	X A. Front pitch	
	✓ B. Back pitch	
	C. Coil pitch	
	X D. Pole pitch	
		Question ID : 75322911572 Status : Answered
		Chosen Option : B
Q.41 Ans	In a Variable Reluctance (VR) stepper motor, to is 10 and the number of teeth on the rotor (Nt) A. 9° B. 4.5° C. 20° D. 15°	ne number of windings in the stator (Nw) is 8. Calculate the step angle.
		Question ID : 75322911645 Status : Answered Chosen Option : A
Q.42	Which component in the wind power plant corwind changes by rotating the angle of blades	
Ans	X A. Nacelle	
	X B. Wind vane	
	C. Pitch drive	
	X D. Yaw drive	
		Question ID : 75322911596 Status : Answered Chosen Option : C

Q.43	Which of the following commutations is also known as se commutation or load commutation?	f-commutation, or resonant
Ans	X A. Class B commutation	
	X B. Class C commutation	
	C. Class A commutation	
	X D. Class D commutation	
		Question ID : 75322911587
		Status : Answered Chosen Option : C
		Chosen Option . C
Q.44	A 132 kV transmission line has the following data: Wt. of conductor = 680 kg/km; Length of span = 260 m Ulti Safety factor = 2. What will be the sag?	mate strength = 3100 kg;
Ans	✓ A. 3.7 m	
	★ B. 1.85 m	
	★ C. 5.1 m	
	➤ D. 2.55 m	CO.
		Question ID: 75322911654
		Status : Answered
		Chosen Option : A
Q.45 Ans	The production of polarisation by the application of mechanical piezoelectricity. What is the reverse phenomenon termed A. Electrostriction	
	X B. Electrostatic	
	C. Recombination	
	D. Diffusion	
		Question ID: 75322911562
		Status : Answered Chosen Option : A

Q.46	6 Pulse width modulated voltage source inverter is a variable frequency a:	converter with
Ans	s X A. thyristor rectifier	
	X B. diode inverter	
	C. thyristor inverter	
	✓ D. diode rectifier	
		Question ID : 75322911651 Status : Answered Chosen Option : D
Q.47	7 A stepping motor has 8 main poles which have been castellated to have lf the rotor has 45 teeth, calculate the stepping angle.	e 4 teeth each.
Ans	s X A. 2.75°	
	✓ B. 3.25°	
	★ C. 1.8°	
	★ D. 2.4°	
	SOUND STATE OF THE PARTY OF THE	Question ID: 75322911663 Status: Not Answered Chosen Option:
Q.48 Ans	8 Which of the following is NOT true about a three-phase squirrel cage in X A. A squirrel cage induction motor is used in lathes and drilling machine	
	B. Rotor copper losses are high and hence less efficient.	
	C. These motors require less maintenance.	
	➤ D. Its construction is very simple and rugged.	
	Ad.	Question ID : 75322911622 Status : Answered Chosen Option : B

Q.49 What is the voltage range for which screened cable is suitable for underground power transmission?

Ans A. 22 kV to 66 kV

X B. Beyond 66 kV

X C. Up to 11 kV

X D. 11 kV to 22 kV

Question ID: 75322911603

Status : **Answered**

Chosen Option : A

Q.50 The distance travelled by a particle in time 't' seconds is given by $s = t^2 - 12t + 3$. Find the time 't' when the velocity

becomes zero.

Ans |

$$\times$$
 A. $t = 9$ sec

$$\times$$
 B. $t = 3 \text{ sec}$

$$\checkmark$$
 C. $t = 6 \sec$

$$\times$$
 D. $t = 12 \text{ sec}$

Question ID: 75322911671

Status : **Answered**

Chosen Option: C

Q.51 The output of the line frequency converters, also called the phase-controlled converters, contains an AC ripple that is a multiple of _____ line frequency.

Ans

Question ID: 75322911590

Status: Answered

Q.52	What should be the cross section of the earth continuity conductor?
Ans	✓ A.
	It should not be either less than 2.9 mm ² or half of the installation conductor size.
	X B.
	It should not be either less than 1.9 mm ² or half of the installation conductor size.
	X C.
	It should not be either less than 0.9 mm ² or half of the installation conductor size.
	X D.
	It should not be either less than 3.9 mm ² or half of the installation conductor size.
	Question ID : 75322911679 Status : Answered Chosen Option : A

Q.53 A burnt motor is rewound with a lower sized conductor (compared to the original one). How will it affect the losses in stators when the conductor size is reduced by 50%?

Ans X A. Losses in stators will increase by 50%.

X B. Losses in stators will increase by 100%.

X C. Losses in stators will increase by 200%.

D. Losses in stators will increase by 300%.

Question ID: 75322911606

Status : **Answered**

Q.54 Which theory presumes that any given activity delineated in a network is unlikely to be completed on time?

Ans

X A. CPM



X C. Gnat chart

X D. Bar chart

Question ID: 75322911611

Status: Answered

Chosen Option : B

Evaluate. $\int x^2 \cos 3x \, dx$

Ans

$$\checkmark$$
 A. $(X^2) \frac{\sin 3x}{3} + (2x) \frac{\cos 3x}{3} - (2) \frac{\sin 3x}{27} + C$

$$\times$$
 B. $(X^2) \frac{\sin 3x}{3} + (x) \frac{\cos 3x}{3} - (2) \frac{\sin 3x}{27} + C$

$$\times$$
 C. $(X^2) \frac{\sin 3x}{3} + (2x) \frac{\cos 3x}{3} - \frac{\sin 3x}{27} + C$

$$\times$$
 D. (X) $\frac{\sin 3x}{3}$ + (2) $\frac{\cos 3x}{3}$ - $\frac{\sin 3x}{27}$ + C

Question ID: 75322911691

Status : Answered

Q.56 Which of the following is a disadvantage of ball bearings?

Ans A. They produce more noise.

- X B. Their life is short.
- X C. They have high friction loss.
- X D. They require more maintenance.

Question ID: 75322911635

Status : Answered

Chosen Option : A

Q.57 What is the resistivity of insulators at room temperature?

Ans

- X A. Between 10^5 to 10^9 ohm cm
- XB. Between 10¹⁸ to 10³² ohm cm
- X C. Between 10^3 to 10^5 ohm cm
- ✓ D. Between 10⁹ to 10¹⁸ ohm cm

Question ID: 75322911675

Status : Answered

Chosen Option: D

Q.58 A 12-pole 3 ϕ alternator driver at speed of 500 RPM supplies power to an 8 pole 3 ϕ induction motor. Calculate the speed if the slip of the motor is 0.03.

Ans

- X A. 627.5 RPM
- X B. 635.5 RPM
- × C. 835.5 RPM
- ✓ D. 727.5 RPM

Question ID: 75322911686

Status: Answered

Q.59	'Two-watt meter' method is used to measure The reading of the first and second wattmete What is the power factor of the load?	
Ans	✓ A. 0.866	
	★ B. 0	
	X C. 0.5	
	X D. 1	
		Question ID : 75322911558
		Status : Answered
		Chosen Option : A
Q.60	Which part of the underground cable helps to or other damaging liquids (acids or alkalis) in	p protect the cable from moisture, gases the soil?
Ans	X A. Armouring	O.
	X B. Insulation	
	C. Metallic sheath	
	X D. Serving	C) Property College
		Question ID : 75322911604
		Status : Answered
		Chosen Option : C
Q.61	What is the normal gap between the rotor and	d the stator of a motor?
Ans	X A. Few mils to 5 mils	_0
	X B. Few mils to 15 mils	
	A. Few mils to 5 mils B. Few mils to 15 mils C. Few mm to 15 mm	
	✓ D. Few mils to 50 mils	
	DI TON NIMOLOGO NIMO	
		Question ID : 75322911666
		Status : Answered
		Chosen Option : D

Q.62	The presence of extra atoms between the regular atoms of the crys in a semiconductor is known as a/an defect.	tal as an interstitial			
Ans					
	X B. Avalanche				
	C. Tunnel				
	X D. Schottky				
		Question ID : 75322911564 Status : Answered Chosen Option : A			
Q.63	Evaluate $\int_0^{\pi/2} \sin x dx$	1055			
Ans	X A. 0				
	✓ B. 1.	O C			
	× c. Infinite				
	X D. Cos x	COLL			
	in sometimes of the second sec	Question ID : 75322911669 Status : Answered Chosen Option : B			
Q.64	What is the approximate efficiency of a hydroelectric power plant?				
Ans	★ A. 45%				
	★ B. 95%				
	★ C. 65%				
	✔ D. 85%				
		Question ID : 75322911594 Status : Answered Chosen Option : D			

П

Q.65 A type of arrester barrier consists of two sphere electrode S₁ and S₂ which are connected, respectively, to the line and the arrester. The auxiliary needle is placed between the mid of two sphere S₁ and S₂. What type of lightning arrester is it?

Ans

X A. Expulsion Type Lightning Arrester

B. Impulse Protective Gap Arrester

X c. Horn Gap Arrester

X D. Auto valve Arrester

Question ID : **75322911683**

Status : Answered

Chosen Option: C

Q.66 What is the ratio of space required Gas (SF6) insulated substation to that of air insulated substation for power distribution?

Ans

X A. 1:8

✓ B. 1:10

X C. 1:5

X D. 1:2

Question ID: 75322911633

Status : **Answered**

Chosen Option: B

Q.67 Which of the following is NOT applicable to the disadvantages of moving coil instruments?

Ans

X A. Used for DC measurement only

X B. Error may be produced due to ageing of permanent magnets and control springs

C. Hysteresis loss

X D. High cost

Question ID: 75322911553

Status : **Answered**

Q.68 What are the inputs to the synchronous motor?

Ans

- X A. A 3-phase supply to a rotor.
- B. A 3-phase supply to a stator and DC supply to a rotor.
- X C. A DC supply to a stator and 3-phase supply to a rotor.
- X D. A DC supply to a stator.

Question ID: 75322911623

Status : Answered

Chosen Option: B

Q.69

Evaluate: ∫ x sin 2x dx

Ans

$$\times$$
 A. $\times \cos \frac{2x}{2} + \sin \frac{2x}{4} + c$

$$\times$$
 B. $\times \cos \frac{2x}{2} - \sin \frac{2x}{4} + c$

$$\times$$
 D. $-x \cos \frac{2x}{2} - \sin \frac{2x}{4} + c$

Question ID: 75322911670

Status: Not Answered

Chosen Option: --

Q.70 Which of the following is NOT true for the Lead sheathed or metal sheathed wiring?

Ans

X A. It can be used in places exposed to sun or rain.

X B. It can be used in damp situation.

X C. It gives a fairly good look.

✓ D. It can be used where chemical corrosion may occur.

Question ID: 75322911592

Status: Answered

Q.71 How are energy meters calibrated?

Ans

- X A. By radian xytronin meter
- X B. By radian dytronic meter
- X C. By an automated meter testing system
- D. By rotating the substandard meter

Question ID: 75322911642

Status : Answered

Chosen Option : D

Q.72

Find the direction cosines of the vector $2\vec{i} + 3\vec{j} - 4\vec{k}$.

Ans

$$\times$$
 A. $-\frac{2}{\sqrt{29}}$, $-\frac{3}{\sqrt{29}}$, $-\frac{4}{\sqrt{29}}$

$$\times$$
 B. $-\frac{2}{\sqrt{29}}$, $-\frac{3}{\sqrt{29}}$, $\frac{4}{\sqrt{29}}$

$$\checkmark$$
 C. $\frac{2}{\sqrt{29}}$, $\frac{3}{\sqrt{29}}$, $-\frac{4}{\sqrt{29}}$

$$\times$$
 D. $\frac{2}{\sqrt{29}}, \frac{3}{\sqrt{29}}, \frac{4}{\sqrt{29}}$

Question ID: **75322911668**

Status : **Answered**

Chosen Option : C

Q.73 Thermistor are made up of which materials?

Ans

X A. Transition metals



X C. Insulating materials

X D. Alkali metals

Question ID: 75322911569

Status : **Answered**

Q.74 How many diodes and SCRs are there in a single-phase half bridge inverter? Ans X A. One diode and two SCRs X B. Two diodes and one SCR C. Two diodes and two SCRs X D. One diode and one SCR Question ID: 75322911644 Status: Answered Chosen Option: C Q.75 What is the compression ratio of the air, which is drawn into the cylinder and compressed to heated enough to ignite the injected fuel in the diesel engine? A. 14: 1 to 25: 1 Ans X B. 4:1 to 11:1 X C. 7:1 to 14:1 X D. 25: 1 to 29: 1 Question ID: 75322911607 Status: Answered Chosen Option: A Q.76 Which of the following is a diamagnetic material? X A. Tungsten Ans B. Graphite X C. Neodymium X D. Gadolinium Question ID: 75322911563 Status: Answered Chosen Option: B

Q.77 Which of the following is NOT one of the mechanical devices used for reducing particulate pollutants? X A. Scrubber Ans X B. Electro-static precipitator X C. Cyclone separator D. Volatile organic compound Question ID: 75322911585 Status: Answered Chosen Option: D Q.78 Which of the following is NOT true for a shell type single-phase transformer? X A. The core has three limbs. B. The coils used are of the multi-layer disc type or sandwich typ C. Both HV and LV windings are placed on a central limb. D. It has a single magnetic circuit. Question ID: 75322911575 Status: Answered Chosen Option : D

Q.79 What are the conditions for the function y = f(x) to be maximum at x = a?

Ans

 \times A. $\frac{dy}{dx}$ is positive and $\frac{d^2y}{dx^2}$ is negative

 \times B. $\frac{dy}{dx}$ is negative and $\frac{d^2y}{dx^2}$ is negative

 \times C. $\frac{dy}{dx} = 0$ and $\frac{d^2y}{dx^2}$ is positive

 \checkmark D. $\frac{dy}{dx} = 0$ and $\frac{d^2y}{dx^2}$ is negative

Question ID: 75322911672

Status: Answered

Chosen Option: C

Q.80 What is the purpose of the copper shading bands provided on the central limb in a single-phase induction type energy meter?

Ans X A. To reduce eddy current and hysteresis losses.

B. To bring the flux produced by the shunt magnet exactly in quadrature with the applied voltage.

X C. To act as a counting or registering mechanism.

X D. To provide braking torque.

Question ID: 75322911557

Status: Answered

Q.81 Ans	When did the first discussion on Human Env. A. 5 June 1982	/ironment take place in UN conferences?
Allo	X B. 5 June 1962	
	X C. 5 June 1952	
	✓ D. 5 June 1972	
	D. 0 04110 1072	
		Question ID : 75322911648
		Status : Answered
		Chosen Option : D
Q.82	According to Fleming's left-hand rule, which current?	finger represents the direction of the
Ans	A. Middle finger	10.3
	X B. Thumb	
	C. Ring figure	
	X D. Fore finger	
		Question ID: 75322911571 Status: Answered
		Chosen Option : A
Q.83	Any three numbers p, q, r proportional to the are called the of the straight-line AB.	direction cosines of the straight-line AB
Ans		
	X B. sector ratios	
	A. direction ratios B. sector ratios C. parallels D. perpendiculars	
	X D. perpendiculars	
	73	
	00	
		Status : Answered Chosen Option : A
		Chosen Option . A

	Which of the following applications is possible with eddy current	ent heating?
Ans	X A. Manufacturing of synthetics	
	X B. Wood processing	
	C. Foundry course baking	
	✓ D. Vacuum tube heating	
		Question ID : 75322911667 Status : Answered
		Chosen Option : B
Q.85	Earthing for high power installations may require several earth	electrodes. How are the
	electrodes connected if more than one is used?	45"
Ans	X A. No inter connection	
	X B. In series parallel connection	O'
	✓ C. Parallel to each other	
	X D. In series with each other	(A)
		Question ID : 75322911593 Status : Answered
		Chosen Option : C
Q.86	What is the maintenance cost for an electric locomotive comp	ared to that of a steam
Ans	locomotive? X A. 60%	
Alla		
	★ B. 70%	
	X D. 40%	
	_0.	Question ID : 75322911636
		Status : Answered
		Chosen Option : C

Q.87 What is the vertical clearance where a low or medium voltage overhead line passes above the building according to IE rule 79?

Ans

- A. 8 feet from the highest point
- X B. 10 feet from the highest point
- X C. 6 feet from the highest point
- X D. 4 feet from the highest point

Question ID: 75322911591

Status: Answered

Chosen Option: A

Q.88 How is the slot angle for a winding is measured?

Ans

$$\times$$
 A. Slot angle = $\frac{180^{\circ}}{Numberpoles}$

$$\times$$
 B. Slot angle = $\frac{180^{\circ}}{Number of slots}$

$$\times$$
 C. Slot angle = $\frac{180^{\circ}}{Numberpoles per slots}$

$$\checkmark$$
 D. Slot angle =
$$\frac{180^{\circ}}{Numberslots per pole}$$

Question ID: 75322911685

Status : **Answered**

	How is the air gap between the stator and rotor of the motor meas	ured?
Ans	X A. By vernier caliper	
	★ B. By micrometer	
	C. By bevel protractor	
	✓ D. By feeler gauge	
		Overtica ID - 75000044000
		Question ID : 75322911629 Status : Answered
		Chosen Option : D
1.90	A 3-phase, 20 HP, 208 V, 6-pole, 50 Hz star connected induction m	otor delivers 15 kW
Ans	at 5% slip. Find the frequency of the rotor current. A. 2.5 Hz	100
Allo	➤ B. 5 Hz	
	★ C. 12.5 Hz	
	➤ D. 25 Hz	
		Question ID : 75322911661
		Status : Answered
		Chosen Option : A
չ.91 Ans	What are the most important properties of insulating material use A. Low resistivity and low dielectric strength	d electrically?
	B. High resistivity and low dielectric strength	
	C. Low resistivity and high dielectric strength	
	D. High resistivity and high dielectric strength	
	19	Question ID : 75322911643
		Status : Answered

Q.92 Which of the following instruments is an absolute instrument?

Ans

X A. Volt meter

- B. Tangent galvanometer
- X C. Glass thermometer
- X D. Pressure gauge

Question ID: 75322911552

Status : Answered

Chosen Option: B

Q.93 What will be the EMF equation when a synchronous motor is operating in a lagging power factor?

Ans

- \checkmark A. E_f = [(V_t cos φ IaRa)² + (V_t sin φ IaXa)²]^{1/2}
- × B. $E_f = [(V_t \cos \varphi + IaRa)^2 + (V_t \sin \varphi + IaXa)^2]^{1/2}$
- \times C. $E_f = [(V_t \cos \varphi IaRa)^2 + (V_t \sin \varphi + IaXa)^2]^{1/2}$
- \times D. $E_f = [(V_t \cos \varphi + IaRa)^2 + (V_t \sin \varphi IaXa)^2]^{1/2}$

Question ID: 75322911687

Status: Answered

Chosen Option : A

Q.94 When was the programme of the Integrated Child Development Services (ICDS) launched?

Ans

X A. 1955

X B. 1985

X C. 1965

✓ D. 1975

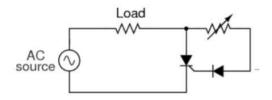
Question ID: 75322911582

Status : Answered

Chosen Option : D

Q.95 Which of the following is NOT true for current transformers and potential transformers used in a substation in a power distribution system? X A. The volt-ampere capacity of a potential transformer is low (100VA) and the voltage Ans ratio is relatively high (132kv/100v). B. The protective relays are connected in the primary circuits of CTs and PTs. X C. The current ratio of current transformers is generally high (500A/5A) and volt ampere capacity is relatively low (50 VA) as compared with that of the power transformers. X D. The current transformers and voltage transformers are used for transforming the current and voltage to a lower value for the purpose of measurement, protection and control. Question ID: 75322911634 Status: Answered Chosen Option: B Q.96 Which of the following is a natural pollution? X A. Chemical factories Ans X B. Transportation C. Terrestrial dust X D. Fuel burning Question ID: 75322911584 Status: Answered Chosen Option: C

Q.97



The above figure represents the resistance triggering to control the Gate current of the SCR. What is the maximum firing angle achievable with this?

Ans



X B. 135°

✓ C. 90°

X D. 45°

Question ID : **75322911678**

Status : Answered

Chosen Option : C

Q.98 Which of the following is defined as the latching current for the SCR?

Ans X

X A. The peak anode current that an SCR can handle for a short duration.

X B. The minimum DC gate current necessary to turn the SCR ON.

C. A minimum anode current must flow through the SCR in order for it to stay ON initially after the gate signal is removed.

X D. A certain minimum value of anode current needed to maintain conduction.

Question ID: 75322911650

Status : Answered

Chosen Option : C

Q.99 A moving coil instrument, whose resistance is 50 Ω , gives a full-scale deflection with a voltage of 1 V. This instrument is to be used with a series multiplier to extend the range to 50 V. Find the value of the multiplier resistance. X A. 2.5 kΩ Ans X B. 2.25 kΩ C. 2.45 kΩ × D. 2.05 kΩ Question ID: 75322911555 Status: Answered Chosen Option : C Q.100 Which of the following is NOT one of the essential features of the switchgear? Ans A. No discrimination X B. Complete reliability X C. Provision of manual control X D. Quick operation Question ID: 75322911612 Status: Answered Chosen Option: A Q.101 What type of energy conversion takes place in a Stepper motor? A. It converts electrical pulse into discrete mechanical movements. Ans X B. It converts electrical energy into linear movements. X C. It converts electrical pulse into impulse movements. X D. It converts electrical energy into rotary movements. Question ID: 75322911570 Status: Answered Chosen Option: A

Q.102 What is the material that is most commonly used as an insulator for overhead lines? Ans A. Porcelain X B. Fibre glass X C. Ebonite X D. Perlite Question ID: 75322911602 Status: Answered Chosen Option: A Q.103 What is the material used for armature core in DC machines in order to reduce the hysteresis loss? X A. Austenite Ans X B. Spring steel C. Silicon steel X D. Chrome steel Question ID: 75322911646 Status: Answered Chosen Option: C Q.104 What should be the smallest aluminium conductor (cross sectional area) for the house wiring? Ans X A. Not less than 1.0 mm² × B. Not less than 2.5 mm² × c. Not less than 2.0 mm² ✓ D. Not less than 1.5 mm² Question ID: 75322911688 Status: Answered Chosen Option: D

Q.105 Which of the following is NOT true for the interconnected grid system in power supply? A. Increases plant reserve capacity Ans X B. Increases reliability of supply X C. Increases diversity factor X D. Makes it possible to use older and less efficient plants Question ID: 75322911653 Status: Answered Chosen Option: A Q. 106 What is the purpose of breather in a three-phase transformer? A. To remove moisture from the incoming air to the oil tank. Ans B. To remove hot gases from the oil tank. C. To maintain the temperature of the transformer oil. D. To allow air into the oil tank for cooling. Question ID: 75322911577 Status: Answered Chosen Option: A

Q.107 How is the plant capacity factor measured?

Ans

★ A. Capacity factor = Sum of individual maximum demands Maximum demand of entire group

➤ B. Capacity factor =

Maximum demand of entire group

Sum of individual maximum demands

★ C. Capacity factor =

Maximum energy that could be generated

Actual energy generated

✓ D. Capacity factor =

Actual energy generated

Maximum energy that could be generated by the could be generated by

Question ID: 75322911680

Status: Answered

Chosen Option : D

Q.108 A 6-cell, 12 V battery is to be charged at a constant rate of 10 A from a 24 V DC supply. If the EMF of each cell at the beginning and end of the charge is 1.8 V and 2.2 V, respectively, what should be the value of the maximum and minimum resistance connected in series with the battery?

Ans

A. Maximum 1.32 Ohm and minimum 1.08 Ohm

X B. Maximum 1.28 Ohm and minimum 0.56 Ohm

X C. Maximum 0.64 Ohm and minimum 0.28 Ohm

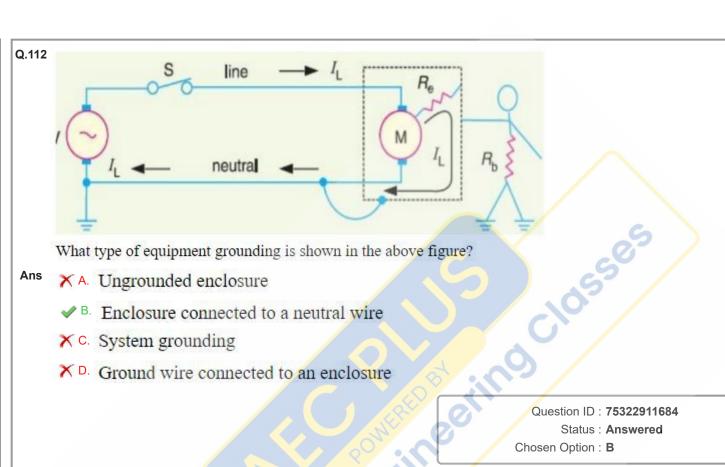
X D. Maximum 2.64 Ohm and minimum 1.32 Ohm

Question ID: 75322911579

Status : Answered

Chosen Option : A

Ans	X A. Secondary emission		
	X B. Field emission		
	C. Photoelectric emission		
	X D. Thermionic emission		
		Question ID : 75322911560	
		Status : Answered Chosen Option : C	
		Cheschi Option:	
.110	Two vectors have the same magnitude and the sa	ime direction, but they do NOT have	
_	the same segment. What are they known as?		
Ans	X A. Collinear vectors		
	X B. Position vectors		
	C. Equal vectors		
	X D. Resolution vectors		
		Question ID : 75322911549	
		Status : Answered	
		Chosen Option : C	
.111	Which insulating materials are generally employe	ed for switch boards and panels?	
ns	X A. Bakelite		
	X B. Polyvinylchloride		
	 ★ A. Bakelite ★ B. Polyvinylchloride ★ C. Porcelain ★ D. Marble and state 		
	✓ D. Marble and state		
	B. Walble and state		
	20.	Question ID : 75322911561	
		Status : Answered	



Q.113 What is the internal barrier voltage of a Silicon diode which opposes the applied voltage?

Ans

X A. 1.1 V

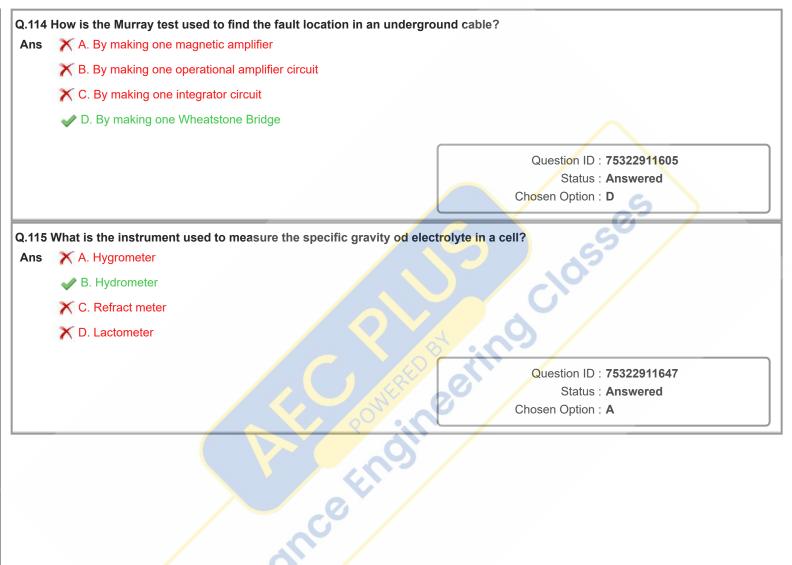
X C. 0.3 V

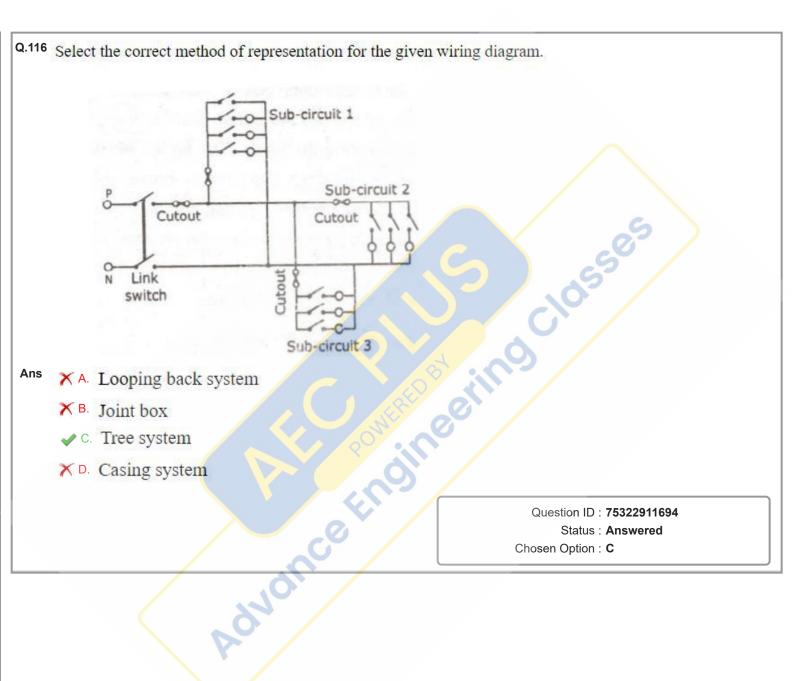
X D. 1.3 V

Question ID: 75322911566

Status : Answered

Chosen Option: B





Q.117 Ladder programming is the most common programming languages for PLCs. Which of the following is NOT true about the features of the ladder language?

Ans X A. Most PLC allows more than one output for each row (Rung).

B. Input instructions are entered on the right and output instructions are located on the left.

C. The Processor (or 'Controller') explores rungs of the ladder from top to bottom and from left to right.

No. Power rails are the power supply lines L1 and L2 for alternating current circuits and 24 V - earth for DC circuits.

Question ID : 75322911618

Status : **Answered**

Chosen Option: B

Q.118 What should be the insulation resistance of the LV side of the 1600 KVA, 20 kV/400 V, three phase, oil filled T/C without oil tank (dry type) at 20°C?

Ans X A. 150 Megaohm

X B. 29.7 Megaohm

X C. 15 Megaohm

D. 300 Megaohm

Question ID: 75322911627

Status: Answered

Chosen Option: D

Q.119 What should be the resistance between the consumer earth terminal and earth continuity conductor (at the end)?

Ans \times A. Should be less than 0.25 Ω

X B. Should be less than 2 Ω

 \checkmark C. Should be less than 1 Ω

 \nearrow D. Should be less than 0.5 Ω

Question ID: 75322911625

Status: Answered

Chosen Option: C

Q.120 Find the equation for the step angle for a stepper motor.

Ans

$$\times$$
 A. Step angle =
$$\frac{180^{\circ}}{(No.of stator phases + No.of rotor teeth)}$$

$$\times$$
 B. Step angle =
$$\frac{180^{\circ}}{(No.of \ stator \ phases \times No.of \ rotor \ teeth)}$$

$$\times$$
 C. Step angle = $\frac{360^{\circ}}{(No.of stator phases + No.of rotor teeth)}$

✓ D. Step angle =
$$\frac{360^{\circ}}{(No.of \, stator \, phases \, \times \, No.of \, rotor \, teeth)}$$

Question ID: 75322911676

Status : Answered

Chosen Option : D

Q.121 An HVDC substation has more than two converter stations and interconnecting DC terminal lines. What do we call this substation?

Ans

A. Multi-terminal DC substation

X B. Point to point system

X C. Multi-terminal point system

X D. Bi-terminal DC substation

Question ID : **75322911600**

Status: Answered

Chosen Option : A

Q.122 Find the formula for the economic voltage between lines in a 3-phase system as per the empirical formula where V is the Line voltage in kV, L is the distance of the transmission line in Km and P is the maximum power per phase to be delivered in a single circuit.

Ans

$$\times$$
 A. $V = 5.5(\frac{L}{1.6} + \frac{3P}{10})^{1/2}$

$$\times$$
 B. $V = 5.5(\frac{L}{16} + \frac{3P}{100})^{1/2}$

$$\checkmark$$
 c. $V = 5.5(\frac{L}{1.6} + \frac{3P}{100})^{1/2}$

$$\times$$
 D. $V = 5.5(\frac{L}{16} + \frac{3P}{10})^{1/2}$

Question ID : 75322911681

Status : Answered

Chosen Option: C

Q.123 Before the Industrial Revolution people worked with hand tools, manufacturing articles in their own homes or in small shops. In the third quarter of the 18th century which power was applied to machinery?

Ans

- X A. Solar power
- B. Steam power
- X C. Hydraulic power
- X D. Thermal power

Question ID: 75322911608

Status : Answered

Chosen Option : B

one minute.

X D. A load of 20% in excess of the specified maximum working load is applied for about

X D. A load of 20% in excess of the specified maximum working load is applied for about two minutes.

Question ID: 75322911655

Status: Answered

Chosen Option: B

Q.125 After the detection of a valid signal in PLC, it passes the signal to logic section through an isolation circuit. What is this isolation circuit made up of?

Ans

X A. Thyristor

X B. Chopper

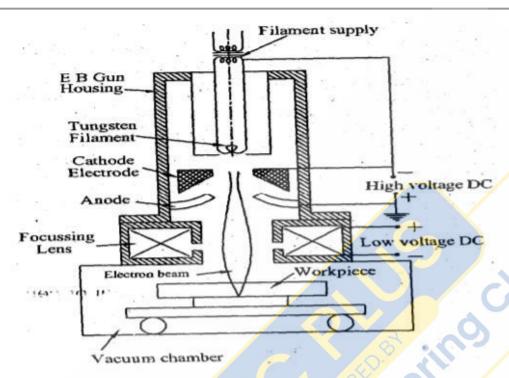
C. Opto-coupler

X D. High pass filter

Question ID: 75322911658

Status: Answered

Chosen Option: C



What type of welding is shown in the above figure?

Ans

- X A. Inert gas metal arc welding
- ✗ B. Laser beam welding
- X C. Ultrasonic welding
- ✓ D. Electron beam welding

Question ID: 75322911690

Status : **Answered**

Chosen Option: D

Q.127 Which of the following is a math instruction in PLC?

Ans

X A. MCR

X B. GRT

✓ C. CPT

X D. TND

Question ID: 75322911617

Status : Answered

Chosen Option: C

Q.128 What is the main cause of noise, hum sound in the transformer?

Ans A. The core is made up of thin laminations, vibrates because of the alternating magnetic flux, and therefore expands or contracts ever so slightly with each cycle.

B. The transformer oil absorbs all the heat generated in the transformer. The sound comes out of the boiling of the oil due to the temperature.

C. Transformers are generally mounted loosely with a shock absorber. High currents due to heavy loads cause vibration at the shock absorber.

D. The current in coils is very high. The force in the coil is directly proportional to the square of the current. The force causes the noise.

Question ID: 75322911626

Status : **Answered**

Chosen Option: A

Q.129 What are the conditions for the function F(X) is said to be the distribution function of the random variable X?

Ans

$$\checkmark$$
 A. $F(X) = P(X \le x); -\infty \le x \le \infty$

$$\times$$
 B. $F(X) = P(X \ge X); -\infty \le X \le \infty$

$$\times$$
 C. $F(X) = P(X \le x); -1 \le x \le 1$

$$\times$$
 D. $F(X) = P(X \ge x); -1 \le x \le 1$

Question ID: 75322911673

Status : **Answered**

Chosen Option: A

Q.130

Find the initial velocity, if $S = 3t^2 - 2t + 3$.

Ans

- **X** A. −4
- X B. 2
- √ C. -2
- X D. 4

Question ID: 75322911692

Status : Answered

Chosen Option : C

Q.131 How is the semiconductor crystal bonded?

Ans

- X A. By Vander wall bond
- B. By electron-pair bonds
- X C. By forces between protons
- X D. By forces between nuclei

Question ID : **75322911565**

Status : Answered

Chosen Option : B

Q.132 Which of the following is the lowest level of the automation hierarchy, which includes devices such as actuators and sensors?

Ans

A. Field level

X B. Cell level

X C. Plant level

X D. Area level

Question ID: 75322911659

Status: Answered

Chosen Option: A

Q.133 Which of the following is usually defined as a communication satellite within the SCADA system? X A. Tag terminal unit Ans X B. Communication terminal unit X C. Master terminal unit D. Remote terminal unit Question ID: 75322911619 Status: Answered Chosen Option: D Q.134 What is the usual KVA rating for Revolving armature type alternator? X A. Very small to very large KVA capacity B. Relatively small KVA capacity C. Medium KVA capacity X D. Relatively large KVA capacity Question ID: 75322911620 Status: Answered Chosen Option: B Q.135 One formal process is used to predict the environmental consequences (positive or negative) of a plan, policy, programme, or project before the decision to move forward with the proposed action. What is the name of the process? X A. Energy impact assessment (EIA) Ans X B. Energy issuance assessment (EIA) C. Environmental impact assessment (EIA) X D. Environmental issuance assessment (EIA)

Question ID : **75322911583**Status : **Answered**

Chosen Option: C

Q.136 A circuit breaker may complete a full short circuit on being closed. This is known as making capacity. How is it calculated?

Ans

 \times A. Making capacity = $\sqrt{3}$ × Symmetrical breaking capacity

X B.

Making capacity = $1.8 \times \sqrt{3} \times \text{Symmetrical breaking capacity}$

✓ C.

Making capacity = $1.8 \times \sqrt{2} \times \text{Symmetrical breaking capacity}$

X D. Making capacity = 1.8 × Symmetrical breaking capacity

Question ID: 75322911682

Status : Answered

Chosen Option : C

Q.137 What should be the cross section of the earth continuity conductor?

Ans 🥒 A

Should not be either less than 2.9 mm² or half of the installation conductor size

X B.

Should not be either less than 1.9 mm² or same as the installation conductor size

X C.

Should not be either less than 1.9 mm² or half of the installation conductor size

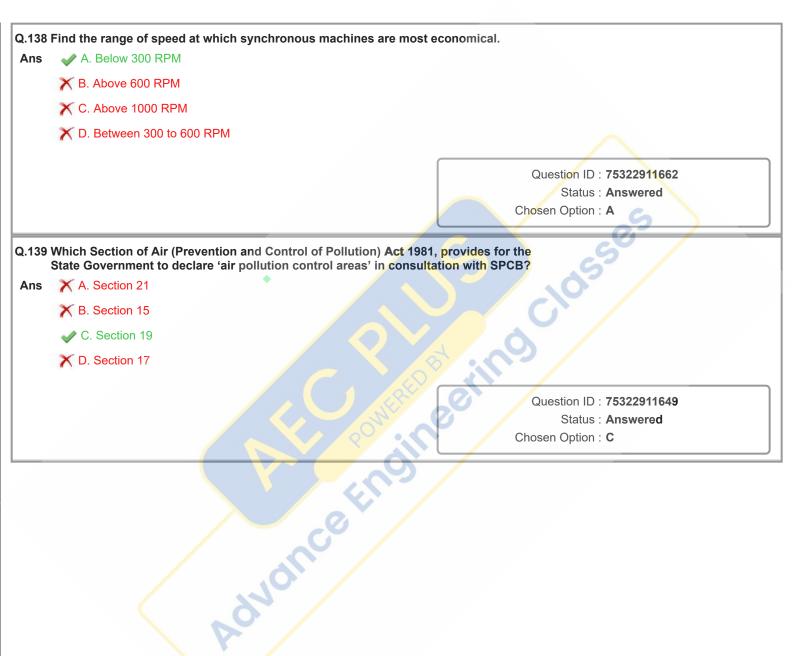
X D.

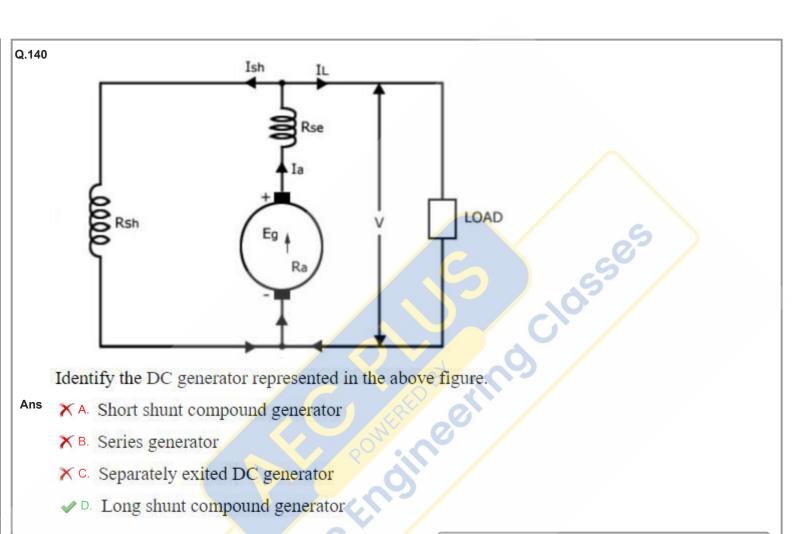
Should not be either less than 2.9 mm² or same as the installation conductor size

Question ID: 75322911695

Status : **Answered**

Chosen Option : A

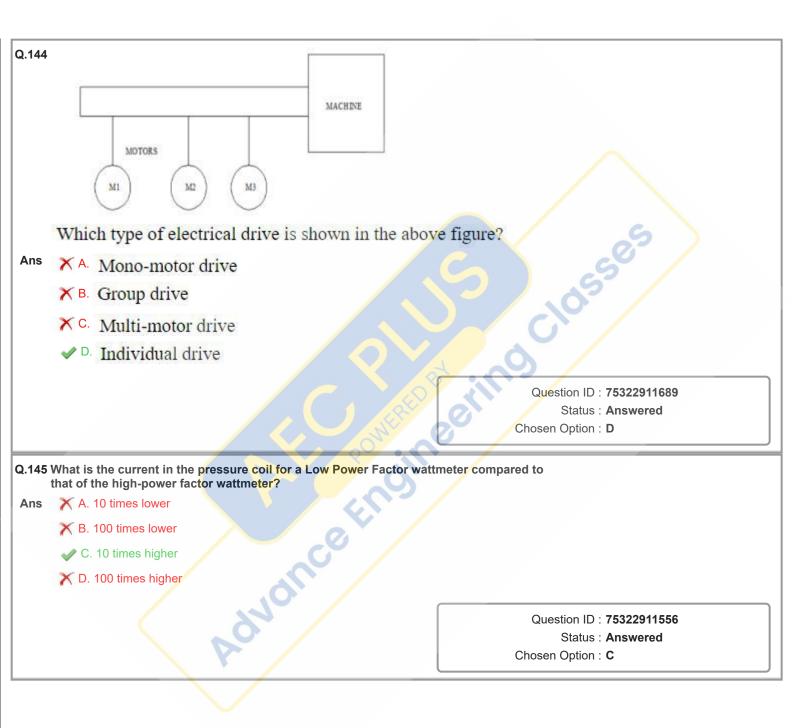


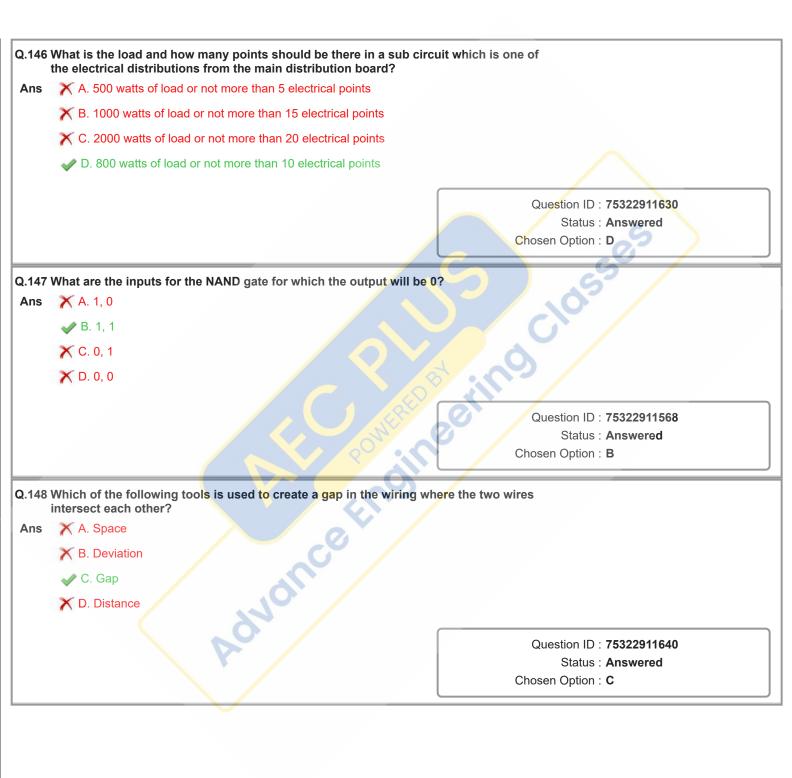


Question ID : **75322911677** Status : **Answered**

Chosen Option : D

Q.141	1 What is connected across the output terminals of the solid s semiconductor output switching device from noise and volt- used to switch highly inductive or capacitive loads?	
Ans	A. Inductor – capacitor network	
	X B. Uni Junction Transistor	
	✓ C. Resistance – capacitor network	
	➤ D. Resistance – Inductor network	
		Question ID : 75322911589 Status : Answered Chosen Option : C
Q.142	2 What is the output voltage of the IC 7905 Voltage Regulator?	
Ans	• ✓ A. −5 V	
	X B. −10 V	
	X C. −2 V	
	X D. −20 V	
	State of the state	Question ID : 75322911567 Status : Answered Chosen Option : A
Q.143	3 In this type of back-up Protection method, the same breaker back-up protection, but the protective systems are different provided for the same breaker. What is this type of Back-up	Separate trip coils may be
Ans		
	X B. Remote back-up method	
	C. Centrally Coordinated Back-up method	
	➤ D. Breaker back-up method	
		Question ID : 75322911616 Status : Answered Chosen Option : A





Q.149 What per cent of energy from the sun is used by green plants? (Rest remains unutilised)

Ans

	Λ	1	C
v	Λ.		

Question ID: 75322911580

Status: Answered

Chosen Option: A

Q.150 How is the making capacity of a circuit breaker related to its symmetrical breaking capacity?

Ans



Making capacity = $1.8 \times \text{Symmetrical breaking capacity} \times \sqrt{2}$



Making capacity = $1.8 \times \text{Symmetrical breaking capacity} \times \sqrt{3}$



Making capacity = $2.8 \times \text{Symmetrical breaking capacity} \times \sqrt{2}$

X D.

Making capacity = $2.8 \times \text{Symmetrical breaking capacity} \times \sqrt{3}$

Question ID: **75322911696**

Status : **Answered**

Chosen Option : A

Section : General Knowledge and Awareness

Q.1	भारत के अजय सिंह ने ताशकंद, उज्बेकिस्तान में आय किस भार वर्ग में स्वर्ण पदक जीता?	
Ans	X A. 59 kg	
	✓ B. 81 kg	
	℃ C. 73 kg	
	★ D. 67 kg	
		2 (1) 17 77774
		Question ID : 75322911700 Status : Not Answered
		Chosen Option :
Q.2	The death rate is the number of deaths per _	persons in a year.
Ans	X A. hundred	
	X B. ten thousand	
	✓ C. thousand	
	X D. million	
		Question ID : 75322911712
		Status : Answered Chosen Option : C
Q.3	नागालैंड की निम्न में से कौन सी जनजाति मो <mark>त्सु</mark> मोंग (Moatsu Mong) उत्सव म <mark>ना</mark> ती है?
Ans	🗙 A. नागा जनजाति (Naga tribe)	
	🗙 B. जारवा जनजाति (Jarawa tribe)	
	🗙 C. सावर जनजाति (Saver tribe)	
	✔ D. आओ जनजाति (Ao tribe)	
	47	
	10.	Question ID : 75322911706
		Status : Not Answered Chosen Option :
		Chosen Option

Q.4	संयुक्त लोक सेवा आयोग का सदस्य अपना पदभार संभालने की तिर्ि जब तक वह का नहीं हो जाता है, जो भी पहले हो, तक अपन	थे से छः वर्ष की अवधि के लिए या 11 पद धारण करता है।
Ans	🗙 A. 64 वर्ष की आयु	
	🗙 B. 60 वर्ष की आयु	
	🗙 C. 65 वर्ष की आयु	
	৵ D. 62 वर्ष की आयु	
		Question ID : 75322911718
		Status : Not Answered Chosen Option :
		Grisson option.
Q.5	पंजाब, पश्चिमी राजस्थान और उत्तरी गुजरात के मैदान निम्नलिखित मे	से किस <mark>पादप मंडल में</mark> शामि <mark>ल</mark>
	हैं?	-10
Ans		Q,
	🗙 B. दक्कन क्षेत्र	
	🗶 C. गंगा का मैदानी क्षेत्र	
	✔ D. सिंधु मैदानी क्षेत्र	
		0 1: 10 ================================
		Question ID : 75322911710 Status : Answered
		Chosen Option: D
Q.6	In budget 2021–22, the tax exemption on the interest earn contributions to provident funds was limited up to:	ed on the employees'
Ans	Δ ₹2.5 lakh	
	X B. ₹3 lakh X C. ₹2 lakh	
	X C. ₹2 lakh	
	X D. ₹1.5 lakh	
	20	
	Y	Question ID : 75322911707
		Status : Not Answered Chosen Option :

Q.7 Which of the following statements is NOT correct about 'solution'?

Ans X A. In saturated solutions, the solvent is not capable of dissolving any more solute at a given temperature.

X B. A dilute solution contains a small amount of solute in a large amount of solvent.

X C. In aqueous solutions, the solute is dissolved in water.

D. In concentrated solutions, the solvent is capable of dissolving any amount of more solute at a given temperature.

Question ID: 75322911715

Status: Not Answered

Chosen Option: --

Q.8 In which year was the Prime Minister Rozgar Yojana (PMRY) launched to create selfemployment opportunities?

Ans

A. 1993

X B. 1990

X C. 1992

X D. 1991

Question ID: 75322911709

Status: Not Answered

Chosen Option: --

Q.9 On the banks of which river is the world heritage site 'Rani-ki-vay' located?

Ans

X A. Sabarmati River

X B. Narmada River

C. Saraswati River

X D. Tapi River

Question ID: 75322911704

Status: Not Answered

Chosen Option: --

Q.10 Ans	Which of the following minerals is essential to produce thyroid hormo	nes?
Alis		
	B. Zinc	
	✓ C. lodine	
	X D. Iron	
		Question ID : 75322911713
		Status : Answered
		Chosen Option : C
Q.11	किस रिट के अनुसार कोई न्यायालय गिरफ्तारी के तरीके या आधारों के वैध या संव	विषजनक न होने पर
Ans	गिरफ्तार व्यक्ति को रिहा करने का आदेश दे सकती है? 🗙 A. अधिकार पृच्छा (quo warranto)	100
Alla		
	🗙 B. उत्प्रेषण (Certiorari)	
	🗶 C. परमादेश (mandamus)	
	✔ D. बंदी प्रत्यक्षीकरण (Habeas corpus)	
		Question ID : 75322911717
		Status : Not Answered
		Chosen Option :
	The Rann Utsav is a quarter-year-long winter celebration in the white	sandy deserts of:
Ans		
	B. Pushkar	
	C. Jaisalmer	
	D. Kutch	
		Question ID : 75322911705
	D.	Status : Answered
		Chosen Option : D

Q.13 किस संविधान संशोधन अधिनियम द्वारा एक नया अध्याय IV-A बनाया गया था, जिसमें केवल एक अनुच्छेद (51-A) जोड़ा गया था, जो नागरिकों के लिए दस मौलिक कर्तव्यों की संहिता से संबंधित था?

Ans

🗙 A. 52वां संविधान (संशोधन) अधिनियम, 1985

🗶 B. 54वां संविधान (संशोधन) अधिनियम, 1986

✓ C. 42वां संविधान (संशोधन) अधिनियम, 1976

🗙 D. ४४वां संविधान (संशोधन) अधिनियम, 1978

Question ID: 75322911716

Status : Answered

Chosen Option : D

Q.14 Which of the following is NOT a correct pair of Delhi Sultan and his tenure?

Ans

X A. Khizr Khan: 1414-1421

X C. Jalal-ud-din Khalji: 1290–1296

X D. Ghiyas ud-din Balban: 1266-1287

Question ID: 75322911703

Status: Not Answered

Chosen Option: --

Q.15 Which of the following is the highest peak of the Kumaun Himalayas?

Ans

X A. Badrinath

X B. Kamet

C. Nanda Devi

X D. Trisul

Question ID: 75322911711

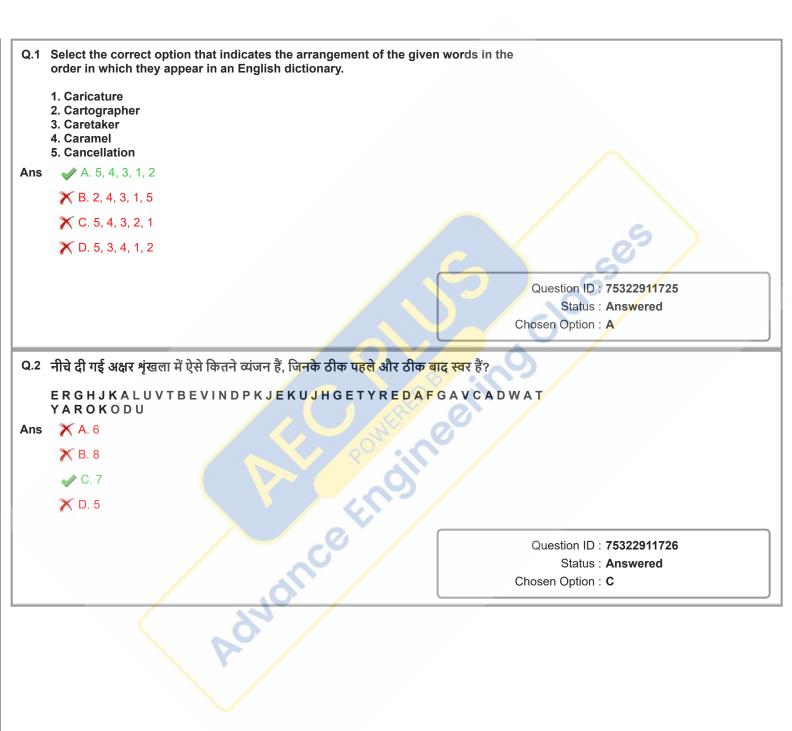
Status: Not Answered

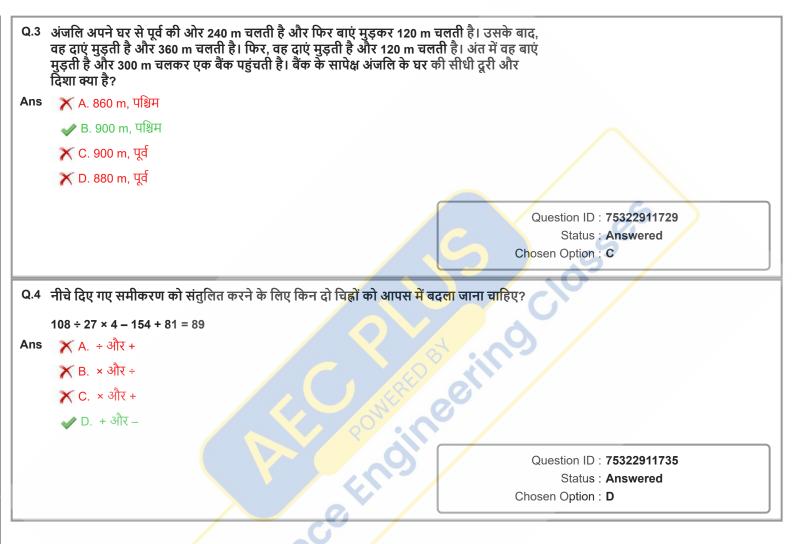
Chosen Option: --

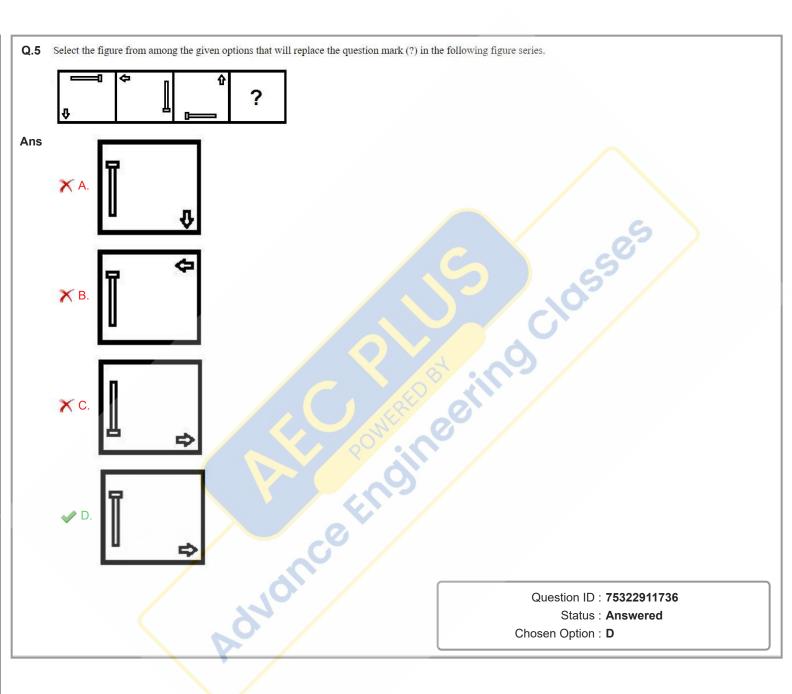
	Which of the following countries is NOT included in the Development Index Report 2020?	
Ans	✓ A. France	
	B. Australia	
	C. Norway	
	X D. Ireland	
		Question ID : 75322911708 Status : Not Answered Chosen Option :
.17	निम्नलिखित में से किस विटामिन को पैंटोथेनिक अम्ल के रूप में	जाना जाता है?
Ans	🗙 A. विटामिन B1	10.
	🗙 B. विटामिन B2	C.
	🗶 C. विटामिन B3	
	✓ D. विटामिन B5	
		Question ID : 75322911714
		Status : Not Answered
		Chosen Option :
ኒ.18	In which year did Dr. Ambedkar start a temple entry m caste followers participated?	ovement, in which his Mahar
Ans	X A. 1925	Y
	★ B. 1923	
	★ C. 1920	
	 Caste followers participated? ★ A. 1925 ★ B. 1923 ★ C. 1920 ★ D. 1927 	
	DO	Question ID : 75322911702
	T	Status : Not Answered
		Chosen Option :

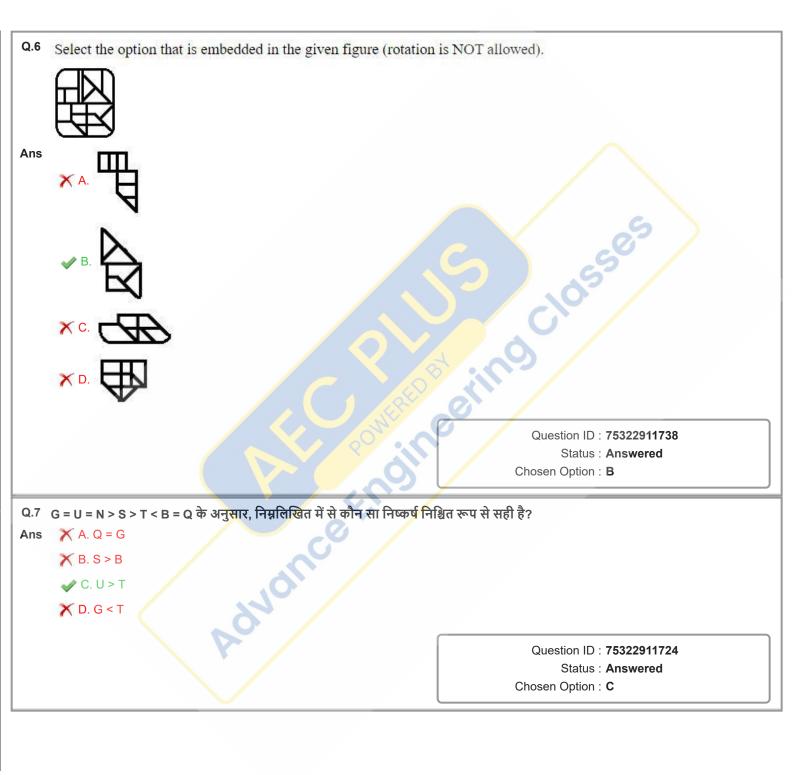
Q.19 अल्पसंख्यक कार्य मंत्रालय की निम्न में से कौन सी योजना, संघ लोक सेवा आयोग (UPSC), राज्य लोक सेवा आयोगों (PSCs) और कर्मचारी चयन आयोग द्वारा आयोजित प्रारंभिक परीक्षा उत्तीर्ण करने वाले अल्पसंख्यक छात्रों को सहायता प्रदान करने से संबंधित है? 🔭 A. पढ़ो प्रदेश Ans 🥒 B. नई उड़ान 🗶 C. नया सवेरा 🗙 D. नई मंजिल Question ID: 75322911699 Status: Not Answered Chosen Option: --Q.20 In 1875, who founded the Arya Samaj, an organisation that attempted to reform Hinduism? X A. Narayana Guru Ans B. Swami Dayanand Saraswati X C. Raja Ram Mohan Roy X D. Ishwar Chandra Vidyasagar Question ID: 75322911701 Status: Answered Chosen Option: B

Section: Reasoning









Q.8 In a code language, FROZEN is written as EPLVZH. How will MOTHER be written in that language?

Ans

A. LMQDZL

X B. NMQCZN

X C. LMQCZM

X D. LMRDAL

Question ID: 75322911727

Status: Answered

Chosen Option: A

Q.9 दिए गए कथनों और निष्कर्षों को ध्यानपूर्वक पढ़ें। कथनों में दी गई जानकारी को सत्य मानते हुए विचार करें, भले ही वह सामान्यतः ज्ञात तथ्यों से भिन्न प्रतीत होती हो, और तय करें कि दिए गए निष्कर्षों में से कौन से कथनों का तार्किक रूप से पालन करते हैं?

कथन:

कुछ जार बोतलें हैं। कुछ बोतलें प्लेटें हैं। सभी प्लेटें चम्मच हैं।

निष्कर्षः

कुछ प्लेटें जार हैं।

॥. कुछ चम्मच प्लेटें हैं।॥. कुछ प्लेटें बोतलें हैं।

Ans

\chi A. केवल निष्कर्ष । और III पालन करते हैं।

🗙 B. केवल निष्कर्ष III पालन करता है।

🗙 C. केवल निष्कर्ष । और ॥ पालन करते हैं।

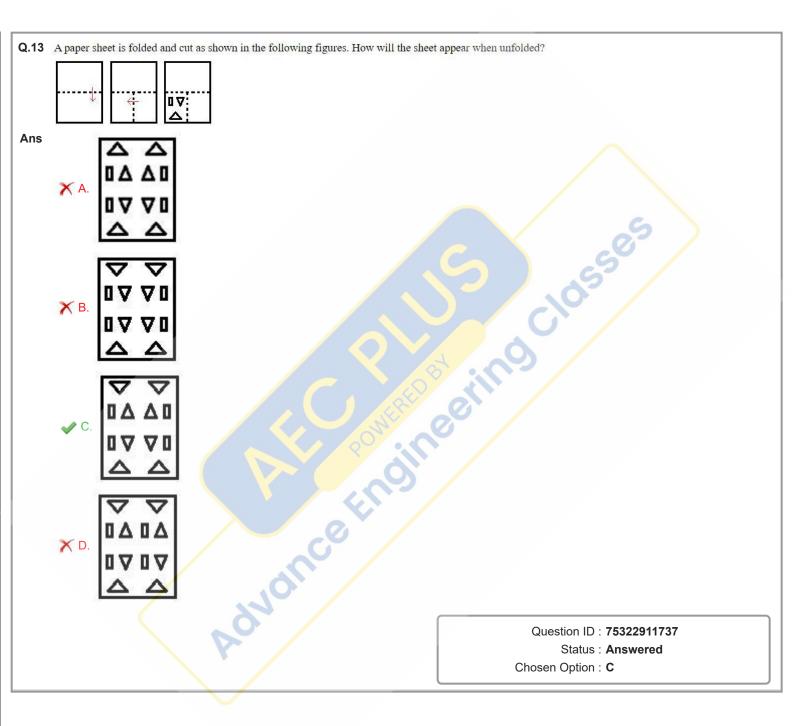
🥒 D. केवल निष्कर्ष ॥ और III पालन करते हैं।

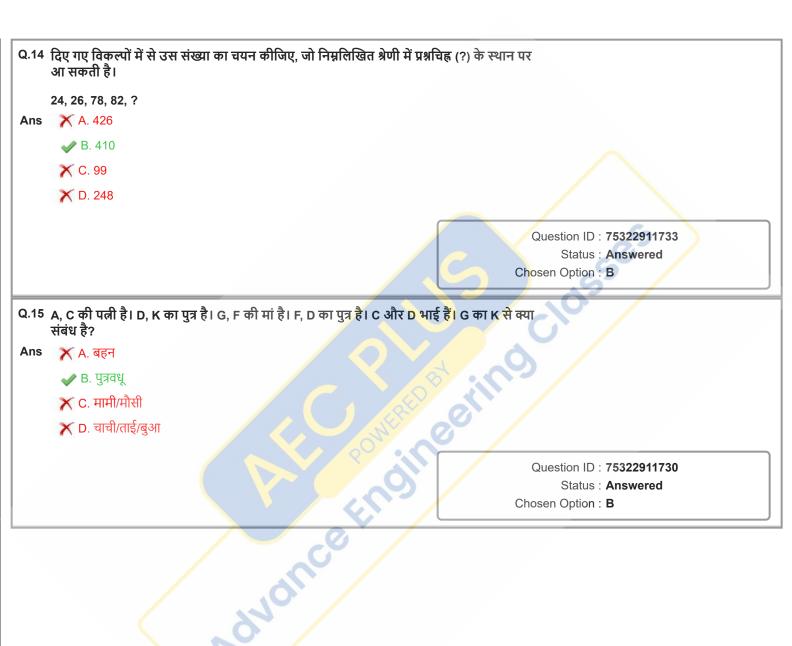
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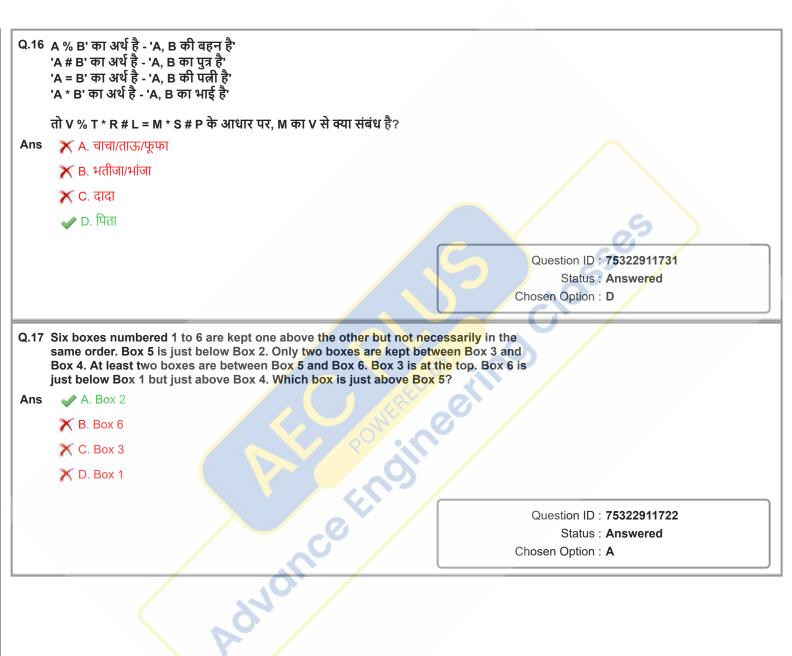
Status: Answered

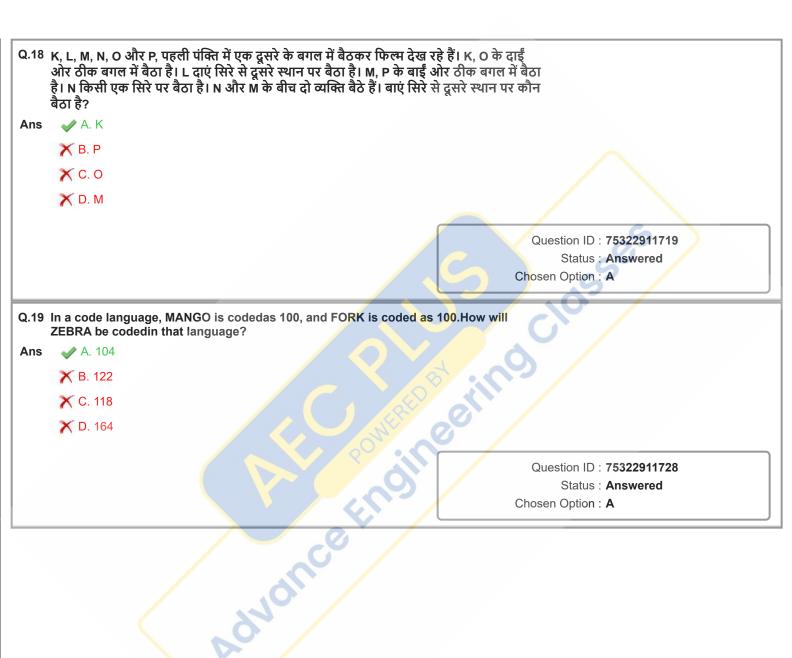
Chosen Option: D

Q.10	विशाल ने हरदीप से अधिक अंक प्राप्त किए। जितन ने प्रतीक से कम अंक प्राप्त किए। सैम ने बलवीर से अधिक अंक प्राप्त किए, जिसने प्रतीक से अधिक अंक प्राप्त किए। जितन ने विशाल से अधिक अंक प्राप्त किए। इनमें से किसने सर्वाधिक अंक प्राप्त किए?		
Ans	🗙 A. विशाल		
	X B. प्रतीक		
	🗙 C. जतिन		
	✓ D. सैम		
		Question ID : 75322911721	
		Status : Answered Chosen Option : D	
Q.11	निफ्तलिखित समीकरण में फ्तश्नचिह्न (?) के स्थान पर लगभग कितना म	गन आएगा?	
	94.008 ÷ 46.998 + 16.006 × 5.98 – 21.003÷ 6.999 = ?	GN /	
Ans	✓ A. 95		
	★ B. 84		
	★ C. 98		
	X D. 92		
		Question ID : 75322911734	
		Status : Answered Chosen Option : A	
		Chiscon spasin: A	
Q.12	उस विकल्प का चयन कीजिए, जिसका तीसरे शब्द से वही संबंध है, जो	दूसरे शब्द का पहले शब्द से है।	
	रॉक : संगीत :: लोरी : ?		
Ans	🗙 A. बच्चे		
	X B. नृत्य		
	✓ C. गीत		
	Х D. मां		
		Question ID : 75322911732	
		Status : Answered	
		Chosen Option : C	









Q.20 संयुक्ता, माही, युक्ता, रौनक, ज़ैनब और हीर एक सीधी पंक्ति में दक्षिण की ओर मुख करके बैठे हैं। युक्ता, रौनक और ज़ैनब के मध्य के किसी स्थान पर बैठी है। माही, ज़ैनब के दाईं ओर ठीक बगल में बैठी है। रौनक और युक्ता के बीच में केवल हीर बैठी है। रौनक किसी एक सिरे पर बैठा है। माही बाएं सिरे से दूसरे स्थान पर बैठी है। संयुक्ता का स्थान कौन सा है? Ans 🗙 A. दाएं सिरे से दूसरा 🗶 B. ज़ैनब और माही के बीच 🗶 C. हीर के बाईं ओर ठीक बगल में Question ID: 75322911720 Status: Answered Chosen Option : D Section: General Hindi Q.1 निम्नलिखित में से कौन सा विकल्प 'मध्यम पुरुष' है? **Х** А. वे Ans ✓ B. तू 🗶 C. मैं 🗶 D. यह Question ID: 75322911743 Status: Answered Chosen Option: B Q.2 'हुलिया तंग होना' मुहावरे का सही अर्थ क्या है? 🗙 A. कमजोर होना Ans 🗙 B. लिज्जित होना 🗶 C. अपमान होना Question ID: 75322911745 Status: Answered Chosen Option: A

Q.3 निम्नलिखित में कौन सा विकल्प 'रूप' के अनुसार क्रियाविशेषण का भेद नहीं है? 🗙 A. स्थानीय Ans 🗙 в. मूल 🗶 C. यौगिक 🥒 D. साधारण Question ID: 75322911741 Status: Not Answered Chosen Option: --Q.4 'हाथी' का पर्यायवाची शब्द कौन सा है? 🟋 A. सैन्धव Ans 🗶 B. मोषक 🟋 C. रासभ 🥒 D. कुंजर Question ID: 75322911747 Status: Not Answered Chosen Option: --Q.5 'जो वस्तु काम में आ जाए वही अच्छी' अर्थ के लिए उपयुक्त लोकोक्ति कौन सी है? 🗙 A. मजनू को लैला का कुत्ता भी प्यारा Ans 🗶 C. बुड्ढी घोड़ी लाल लगाम 🧪 🗙 D. बोए पेड़ बबूल के आम कहाँ से होय Question ID: 75322911746 Status: Answered Chosen Option: B

Q.6 'विधि' का विलोम क्या होगा? 🗙 A. विधान Ans 🗙 C. सुधि 🗶 D. प्रविधि Question ID: 75322911748 Status: Not Answered Chosen Option: --Q.7 'उसने अभी नहाया है।' वाक्य में कौन सा काल है? Ans 🗶 B. सामान्य वर्तमान 🗶 C. सामान्य भूत 🗶 D. संदिग्ध भूत Question ID: 75322911740 Status: Not Answered Chosen Option: --Q.8 'वह मुझे कभी न कभी मिलेगा।' वाक्य में कौन सा काल है? 🗶 A. संभाव्य भविष्यत् Ans 🗙 в. सामान्य भूत 🗶 D. सामान्य वर्तमान Question ID: 75322911739 Status: Answered Chosen Option: A

