UPPCL JE EE

Previous Year Paper 28 March 2022 Shift 1





Participant ID	
Participant Name	
Test Center Name	
Test Date	28/03/2022
Test Time	9:00 AM - 12:00 PM
Subject	Junior Engineer Trainee Electrical

Section : Domain Knowledge

Q.1 Which part of the underground cable is intended to protect the cable from mechanical injuries while laying it or handling it?

Ans

X A. Serving

X B. Insulation

C. Armouring

X D. Metallic sheath

Question ID: 75322911408

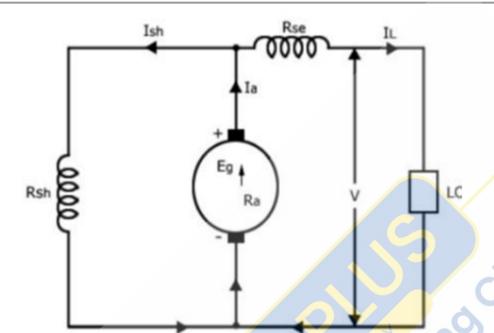
Status : **Answered** Chosen Option : **C**

Q.2 Which of the following statements is NOT true about the three-phase slip ring induction motor? X A. Slip ring induction motors are used in hoists, cranes and elevators. Ans X B. There is a possibility of adding additional resistance to control speed. X C. It has high starting torque and low starting current. D. Slip ring motors are widely used. Question ID: 75322911426 Status: Answered Chosen Option: A Q.3 Find the most suitable use of a hybrid stepper motor. X A. When step angles of 180°, 360° etc. are required Ans X B. When step angles of 90°, 270° etc. are required ✓ C. When step angles of 1.8°, 2.5° etc. are required. X D. When step angles of 18°, 25° etc. are require Question ID: 75322911370 Status: Answered Chosen Option: C Q.4 A hall of size 25 m by 25 m is to be illuminated with 60 lux. If lamp efficiency is 50 lumens / watt, utilisation factor is 0.8 and candle power depreciation is 25%. The total wattage required is: Ans A. 3.75 kW X B. 5.5 kW X C. 4.25 kW X D. 2.5 kW Question ID: 75322911438 Status : Not Attempted and Marked For Review

Chosen Option: --

X A. EPBC (The Environment Protection and Biodiversity Conservation) Act Ans X C. International Association for Impact Assessment (IAIA) X D. Environmental Impact Assessment (EIA) Question ID: 75322911386 Status: Not Answered Chosen Option: --Q.6 Synchronous motors are mechanically coupled with another device, which is disconnected after the magnetic locking. What is that device? X A. Battery Ans B. Another motor X C. Inverter X D. Generator Question ID: 75322911427 Status: Marked For Review Chosen Option: B Q.7 प्राचीन मान्यता के अनुसार, पर्यावरण पांच मुख्य तत्वों यानी 'पंचभूतों' से बना था। ये पंचभूत क्या हैं? 🗙 A. वायु, जल, ऊर्जा, आत्मा और स्वर्ग 🗙 B. जल, आत्मा, स्वर्ग, आकाश और वायु ✓ C. वायु, जल, भूमि, आकाश और ऊर्जा 🗶 D. वायु, जल, आकाश, ऊर्जा और आत्मा Question ID: 75322911382 Status: Answered Chosen Option: C

Q.5 Which of the following legislations came into effect in India in the year 1982?



Identify the type of generator represented in the given figure.

Ans

- X A. Long shunt compound generator
- ★ c. Separately exited DC generator
- X D. Series generator

Question ID: 75322911478

Status: Answered

Chosen Option : B

Q.10 Where can we employ low resistance methods of arc extinction?

Ans X A. In AC circuit breakers and low-capacity DC circuit breakers

B. Only in AC circuit breakers

X C. Only in DC circuit breakers

X D. In DC circuit breakers and low-capacity AC circuit breakers

Question ID : 75322911414

Status : **Answered**

Chosen Option: D

Q.11

Evaluate: $\int_{1}^{2} (x^2 + x) dx$

Ans

 \times A. $\frac{33}{6}$

X B. $\frac{7}{3}$

 \times C. $\frac{23}{12}$

✓ D. ²³/₆

Question ID : 75322911470 Status : Answered

Chosen Option : D

Q.12 What is the maximum value of the input voltage to the IC 7805 voltage regulator?

Ans X A. 5 V

X B. 25 V

X C. 15 V

✓ D. 35 V

Question ID : **75322911366**

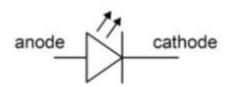
Status : **Answered**

Chosen Option : A

Q.13	A 250 V motor has an armature circuit resistance of 2 Ω . If the full load ar current is 10 A, find the back EMF induced in the armature.	mature
Ans	X A. 210 V	
	X B. 250 V	
	✓ C. 230 V	
	X D. 240 V	
		Question ID : 75322911372 Status : Answered Chosen Option : C
Q.14 Ans	What is the command to display the data type of input in MATLAB? A. type	0,53
	★ B. Who	
	C. whos	
	X D. lookfor	100
		Question ID : 75322911443 Status : Marked For Review Chosen Option : D
Q.15 Ans	What is the purpose of shielding in nuclear power plant? X A. It absorbs neutrons and stops the chain reaction to proceed further.	
	✗ B. It reduces the speed of the neutron by absorbing its energy.	
	C. It converts the steam coming out of the turbine into water.	
	D. It prevents radiation to reach outside the reactor.	
	Advice	Question ID : 75322911453 Status : Answered Chosen Option : D

Q.16	What is the value of $\frac{dy}{dx}$ at turning point?	
Ans	× A. Positive	
	× B. Infinite	
	× c. Negative	
	✓ D. 0	
		Question ID : 75322911472 Status : Answered Chosen Option : C
Q.17	Air filters are used to remove the dust particles present in the air into the diesel engine. Which of the following CANNOT be the co filter?	during the entrance instituent of the air
Ans	X A. Felt	
	➤ B. Cloth	(A)
	➤ C. Wool	C
	✓ D. Charcoal	O O
	Engl	Question ID: 75322911455 Status: Answered Chosen Option: D
Q .18	How many pressure coils and current coils are there in the dyna phase wattmeter?	mometer type three-
Ans	A. There is one pressure coil and one current coil.	
	➤ B. There is no pressure coil and no current coil.	
	C. There are three pressure coils and three current coils.	
	D. There are two pressure coils and two current coils.	
		Question ID : 75322911355 Status : Answered Chosen Option : A

Q.19 What is the voltage rating for a low voltage power cable?	
Ans X A. Less than 11 kV	
C. Less than 400 V	
D. Less than 32 kV	
	0 11 12
	Question ID : 75322911407 Status : Answered
	Chosen Option : B
Q.20 Identify the option for which brushless servo motor is most suitable	25
Ans X A. Printers	
✓ B. Aircraft control systems	
C. Disc drives	
➤ D. Numerically controlled milling machines	
	Question ID : 75322911371
	Status : Answered
	Chosen Option : B
Q.21 In which type of DC link configuration is the voltage between the co	
Ans X A. Homopolar link	
X B. Unipolar link	
C. Monopolar link	
✓ D. Bipolar link	
Ans X A. Homopolar link X B. Unipolar link X C. Monopolar link D. Bipolar link	Question ID : 75322911405
	Status : Answered
	Chosen Option : D



Identify the diode for which the above symbol is used.

Ans

X A. Varactor diode

X C. Photo diode

✗ D. Blocking diode

Question ID : 75322911491

Status : Answered

Chosen Option: B

Q.23 Which of the following are the qualities of the starting torque and power factor of a shaded pole single-phase induction motor?

Ans

X A. Poor starting torque and high power factor

X B. Moderate starting torque and low power factor

X C. Moderate starting torque and high power factor

D. Very poor starting torque and low power factor

Question ID: 75322911424

Status : **Answered**

Chosen Option: D

Q.24

If $s = 3t^2 - 5t + 7$ find initial velocity.

Ans

X A. 2

X B. 5

X C. −2

✓ D. -5

Question ID: 75322911471

Status : Answered

Chosen Option : D

Q.25 What is the equation for the calculation of breaking capacity for a circuit breaker?

Ans

XA.

Breaking capacity = 2 × Rated symmetrical breaking current × Rated service voltage

X B.

Breaking capacity = 3 × Rated symmetrical breaking current × Rated service voltage

✓ C.

Breaking capacity = Rated symmetrical breaking current \times Rated service voltage x $\sqrt{3}$

X D.

Breaking capacity = Rated symmetrical breaking current × Rated service voltage x $\sqrt{2}$

Question ID: 75322911496

Status : Answered

Chosen Option : C

Q.26 Which of the following is NOT one of the classifications of energy conservation measures?

Ans X A. Medium cost – medium return

X B. Low cost - high return

X C. High cost – high return

✓ D. High cost – low return

Question ID: 75322911409

Status : Not Attempted and Marked For Review

Chosen Option : --

Q.27 A transmission line has a span of 150 m between level supports. The conductor has a cross-sectional area of 2 cm². The tension in the conductor is 2500 kg. If the specific gravity of the conductor material is 9 gm/cm³ and wind pressure is 0.87 kg/m length, what will be the sag?

Ans

✓ A. 2.25

X B. 2.67

X C. 1.8

X D. 3.16

Question ID: **75322911483**

Status: Not Answered

Chosen Option: --

Q.28 Which of the following is NOT true for the power supply for the arc welding?

Ans A. Power factor is high

X B. Heat is developed due to arc between electrode and work piece

X C. Power supply can be AC or DC

X D. High voltage power supply is required

Question ID : **75322911465**

Status : **Answered**

Chosen Option: A

Q.29	What is the most vital condition to be ensured throughout the period transformer (which usually takes 3 to 4 weeks for large transformer	
Ans	X A. The oil temperature should never exceed 50°C	
	X B. The oil temperature should never exceed 70°C	
	C. The oil temperature should never exceed 90°C	
	➤ D. The oil temperature should never exceed 100°C	
		Question ID : 75322911430
		Status : Not Answered Chosen Option :
		Chosen Option
Q.30	What types of motors are normally fitted with appliances like blowe	e <mark>r and cen</mark> trifugal
Ans	pumps? A. Split phase induction motor	-10.
,	➤ B. Universal motor	C' /
	C. Shaded pole induction motor	
		8
	D. Synchronous motor	
		Question ID : 75322911425
		Status : Answered
		Chosen Option : A
Q.31	A 50 KVA, single-phase transformer has 500 turns on the primary a secondary. The primary is connected to 4000 V, 60Hz supply. Determine the secondary of the primary is connected to 4000 V, 60Hz supply.	
Ans	X A. 0.025 Wb	
	✓ B. 0.03 Wb	
	★ C. 0.0225 Wb	
	X D. 0.003 Wb	
	A	
		Question ID : 75322911376
		Status : Answered Chosen Option : B
		CHOSEH OPHOH . D

Q.32 How is the switching circuit in the power section of an AC output module operated to switch power ON and OFF in PLC?

Ans

- X A. Either by using a TRIAC or MOSFET
- X B. Either by using DIAC or MOSFET
- C. Either by using a TRIAC or SCR
- X D. Either by using DIAC or MOFSET

Question ID: 75322911418

Status: Not Answered

Chosen Option: --

Q.33 When throwing a die what is the probability of getting a 3?

Ans

- \times A. $\frac{1}{2}$
- X B. 1
- **X** C.
- **✓** D.

Question ID: **75322911475**

Status : **Answered**

Chosen Option : D

Q.34 What is the biasing of junction in SCR in forward blocking state?

Ano

- X A. J2 and J3 are forward biased, J1 is reverse biased
- X B. J1 and J2 are forward biased, J3 is reverse biased
- C. J1 and J3 are forward biased, J2 is reverse biased
- X D. J2 and J3 are reverse biased, J1 is forward biased

Question ID: 75322911452

Status : **Answered**

Chosen Option: C

Q.35	5 Suspension type insulators are used in an overhead transmissic discs in series will be provided on the string if the working volta	
Ans	X A. 11	
	★ B. 9	
	✓ C. 6	
	★ D. 7	
		Question ID : 75322911406 Status : Answered Chosen Option : C
Q.36	The effective armature resistance and synchronous reactance of connected, 440 V, 3-phase, 50 Hz alternator are 0.2 Ω and 3 Ω per Determine the percentage voltage regulation on full load at unity	r p <mark>hase, respectivel</mark> y.
Ans	A. 56%	C,
	★ B. 63%	
	✓ C. 41%	(A)
	★ D. 78%	CITY
		Question ID : 75322911423
		Status : Not Answered
		Chosen Option :
Q.37	7 Which component in a wind power plant senses the direction of direction to the PLC, following which the PLC faces the blades in cuts the maximum wind?	
Ans	A. Yaw drive	
	➤ B. Pitch drive	
	C. Nacelle	
	✓ D. Wind vane	
		Question ID : 75322911400
		Status : Answered
		Chosen Option : D

Q.38 Which of the following statements is NOT true about servo motors?

Ans X A. Internally, a servo motor combines a motor, feedback circuit, controller and other electronic circuit.

- B. A servo motor is used for continuous energy conversion.
- C. A servo motor is a linear or rotary actuator that provides fast precision position control for closed-loop position control applications.
- D. Servo motors have a high speed response due to low inertia and are designed with small diameter and long rotor length.

Question ID: 75322911428

Status: Answered

Chosen Option: B

Q.39 Which of the following statements is NOT true about an alternator with a cylindrical rotor?

Ans X A. There is no need for damper winding.

- B. It is not suitable for high-speed operation.
- X C. The rotor has no projecting pole.
- X D. The rotor causes no speed fluctuation.

Question ID: 75322911422

Status : **Answered**

Chosen Option: B

Q.40 Where are the shunt capacitors installed for improvement of power factor?

Ans X A. Near supply points

B. Near load points

X C. Parallel to transmission line

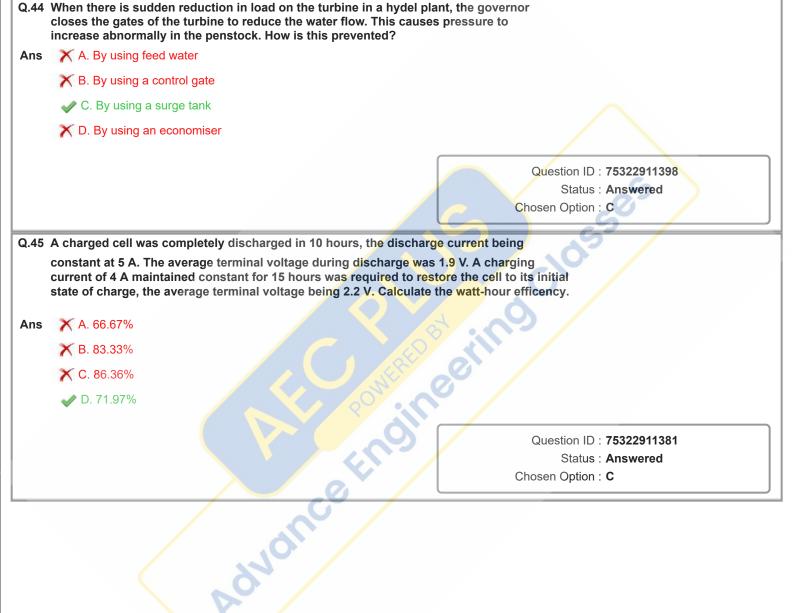
X D. Parallel to the distribution transformer

Question ID: 75322911439

Status : **Answered**

Chosen Option: B

Q.41	1 Which of the following is the distance between two adjacent poles in ter of armature conductors?	ms of number
Ans	A. Coil pitch	
	X B. Back pitch	
	C. Front pitch	
	✓ D. Pole pitch	
		Question ID : 75322911373 Status : Answered Chosen Option : D
Q.42	2 The presence of certain pollutants can accelerate the breakdown of the the reason that the depletion of ozone affects human health, food produ	
Ans	A. The ozone works as an effective screen for UV light B. The ozone works as a temperature dissipation med C. The ozone works as agent for killing the insects. D. The ozone works as an absorber of pollution.	
	20 Miles	Question ID : 75322911388 Status : Answered Chosen Option : A
Q.43	3 Why is Dynamometer type wattmeter is equipped with mirror type scale edge pointers?	s and knife
Ans	A. To remove reading errors due to parallax	
	➤ B. To facilitate controlling force	
	C. To facilitate proper damping	
	➤ D. To remove eddy current and hysteresis loss	
		Question ID : 75322911354 Status : Answered Chosen Option : A



Q.46 Ans

Find the slope of the tangent at (1, -2) on the curve $y = x^4 - 3x^2$.

Ans X A. 46

X B. −46

√ C. -2

X D. −22

Question ID: 75322911473

Status : Answered

Chosen Option : C

Q.47 Eco-Mark is an eco-labelling scheme which was constituted by the Government of India in 1991. What was identified in this scheme?

Ans X A. Environment-friendly vehicles

X B. Environment-friendly power source

X C. Environment-friendly machineries

D. Environment-friendly products

Question ID: 75322911450

Status: Answered

Chosen Option: D

Q.48 Which of the following is a data transfer instruction in PLC?

Ans

X A. MIQ

X B. LUM

✓ C. MVM

X D. LIM

Question ID: 75322911419

Status : **Answered**

Chosen Option: C

Q.49 Control Variable is an element address that stores the output of the PID instruction. What is the range of the output value?

Ans

X A. From 0 to 8191

B. From 0 to 16383

X C. From 0 to 4096

X D. From 0 to 32768

Question ID: 75322911420

Status: Not Answered

Chosen Option: -

Q.50



The above Lissajous pattern is observed in CRO. What is the phase difference between the applied signals?

Ans

X B. 30° or 330°

✓ C. 180°

X D. 90° or 270°

Question ID: 75322911489

Status: Answered

Chosen Option: C

Q.51

Evaluate: $\int_{1}^{2} \frac{1}{x} dx$

Ans

X A. Log x

 \times C. $\frac{x^2}{2}$

 $X D. \frac{2}{x^{-2}}$

Question ID : 75322911468

Status: Answered

Chosen Option: B

Q.52 Identify the SCADA software developed by Honeywell.

Ans

X A. Intellution iFIX

X B. RSView 32

✓ C. SCAN 3000 SCADA

X D. WinCC

Question ID : **75322911421**

Status : **Answered**

Chosen Option : B

Q.53 Which of the following is a peak load power plant?

Ans

A. Diesel generator

X B. Coal power plant

X C. Biogas plant

X D. Geothermal plant

Question ID : **75322911454**

Status : **Answered**

Chosen Option: A

Q.54	A circuit breaker essentially consists of fixed and moving contacalled?	cts. What are they
Ans	X A. Pivots	
	X B. Arcing points	
	C. Electrodes	
	X D. Operators	
		Question ID : 75322911412 Status : Answered Chosen Option : C
Q.55	What should be the cross section when a copper strip is used a	s a <mark>n earth wi</mark> re?
Ans	✓ A. Not less than 25 mm × 1.6 mm	10-
	➤ B. Not less than 25 mm × 0.6 mm	
	C. Not less than 15 mm × 1.6 mm	
	➤ D. Not less than 15 mm × 0.6 mm	B 103
		Question ID : 75322911397 Status : Answered Chosen Option : A
Q.56	Dampness in winding can be removed by drying out the equipm chamber or in an impregnating plant. What should be the inside	
Ans		temperature :
	✓ B. 80°C to 100°C	
	 ★ A. 70° C to 80° C ★ B. 80°C to 100°C ★ C. 60° C to 70° C ★ D. 100° C to 120° C 	
	X D. 100° C to 120° C	

Q.57	A moving coil instrument of resistance 20 Ω gives a f Explain how the meter can be used to measure current	
Ans	\nearrow A. By adding a shunt of 0.01 Ω	
	\checkmark B. By adding a shunt of 0.202 Ω	
	\nearrow C. By adding a shunt of 0.02 Ω	
	ightharpoonup D. By adding a shunt of 0.252 Ω	
		Question ID : 75322911353 Status : Answered Chosen Option : B
Q.58	Which of the following is NOT one of the factors upor depends?	n which the arc resistance
Ans	X A. Degree of ionisation	
	X B. Length of arc	
	C. Duration of the arc	
	X D. Cross section of arc	
		Question ID : 75322911413 Status : Answered Chosen Option : C
Q.59	Lattice vacancies are created when certain atoms in a What is this defect?	
Ans	X A. Tunnel defect	
	✗ B. Avalanche defect	
	What is this defect? X A. Tunnel defect B. Avalanche defect C. Frenkel defect	
	✓ D. Schottky defect	
	A	Question ID : 75322911363
		Status : Marked For Review
		Chosen Option : D

Q.60	Excessive extraction of certain material can cau one from the given options.	use ground water pollution. Find the
Ans	X A. Ferrous contamination	
	C. Chloride contamination	
	X D. Bakelite contamination	
		Question ID : 75322911451 Status : Answered Chosen Option : C
Q.61	By using, starting torque can be reduced up the conveyor belt. The setting possibility of the torque to exactly the level that is necessary	the starte <mark>r makes it possible to adjus</mark> t
Ans	X A. direct-on-line starter	G.
	X B. auto transformer starter	
	C. star-delta starter	
	✓ D. soft starter	CITY OF THE PROPERTY OF THE PR
		Question ID : 75322911433
		Status : Answered
		Chosen Option : B
	, dydri'd	

Q.62 What are the conditions for a function f is said to be probability density function (pdf) of the continuous random

variable X?

Ans

$$\bigwedge$$
 A. $f(x) \ge 0$ for all $x \in R$ and $\int_{-\infty}^{\infty} f(x) dx = 0$

$$\times$$
 B. $f(x) \le 0$ for all $x \in R$ and $\int_{-\infty}^{\infty} f(x) dx = 1$

$$\checkmark$$
 C. $f(x) \ge 0$ for all $x \in R$ and $\int_{-\infty}^{\infty} f(x) dx = 1$

$$\nearrow$$
 D. $f(x) \le 0$ for all $x \in R$ and $\int_{-\infty}^{\infty} f(x) dx = 0$

Question ID: 75322911474

Status: Not Answered

Chosen Option: --

Q.63 When a current is passed through the junction of two different metals, heat is absorbed or liberated depending on the direction of the current. What is this effect known as?

Ans

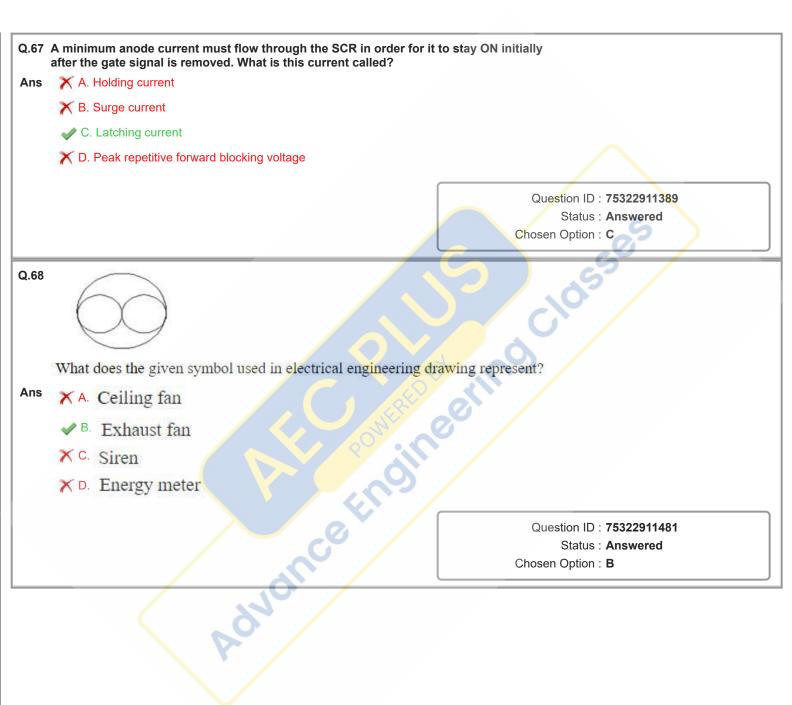
- X A. Seeback effect
- X B. Hall effect
- X C. Thomson effect
- D. Peltier effect

Question ID: 75322911360

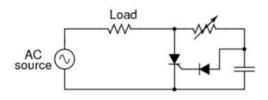
Status: Answered

Chosen Option : C

Q.64 Which of the following is a paramagnetic material? Ans A. Lithium X B. Silicon X C. Bismuth X D. Copper Question ID: 75322911362 Status: Answered Chosen Option: A Q.65 To which points of the earth leakage circuit breaker are phase and neutral wire of power supply connected? X A. Anode and cathode of a thyristor Ans X B. Terminals of a snubber circuit C. Separate windings of a small transformer X D. Terminals of a high pass filter Question ID: 75322911396 Status: Answered Chosen Option: C Q.66 A 3-phase, 20 HP, 208 V, 6 pole, 50 Hz star connected induction motor delivers 15 kW at 5 % slip. Find the rotor speed. ✓ A. 950 RPM Ans X B. 500 RPM X C. 750 RPM X D. 900 RPM Question ID: 75322911460 Status: Answered Chosen Option: A



Q.69	Sensors are devices used to provide information on the object. Sensors are connected to theof a PLC.	presence or absence of an
Ans	X A. logic section	
	X B. output	
	C. isolator	
	✓ D. input	
		Question ID : 75322911457
		Status : Answered
		Chosen Option : D
Q.70	In which year did the Supreme Court directed to include the curriculum right from the school stage to university	environmental education in level?
Ans		
	X B. 1978	
	★ C. 1958	
	★ D. 2008	
		Question ID : 75322911385
		Status : Not Answered
		Chosen Option :
	Advance	
	101	
	20	



What is the purpose of resistance-capacitance triggering on SCR as shown in the given diagram?

Ans

- ✓ A. To achieve firing angle up to 180°
- ★ B. To achieve firing angle up to 270°
- ★ c. To achieve firing angle up to 360°
- X D. To achieve firing angle up to 90°

Question ID: 75322911479

Status : Answered

Chosen Option: A

Q.72 Which of the following is NOT an advantage of moving coil instruments?

Ans

- X A. Uniform and long scale
- X B. No hysteresis loss
- X C. High torque-weight ratio
- D. Low cost

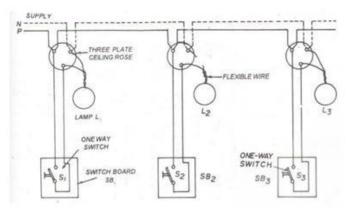
Question ID: 75322911351

Status: Answered

Chosen Option : D

Q.73	3 A 6-pole wave connected armature has 200 conductors and rugenerated is 500 V. Find the useful flux per pole.	ins at 1000 rpm. The EMF
Ans	s X A. 0.01 Wb	
	※ B. 0.02 Wb	
	★ C. 0.5 Wb	
	✓ D. 0.05 Wb	
		Question ID : 75322911374 Status : Answered Chosen Option : D
Q.74	4 A solenoid type relay is what type of relay as far as the relay t	iming is concerned?
Ans	s X A. Inverse time relay	102
	✓ B. Instantaneous relay	C'
	C. Inverse definite minimum time	
	✗ D. Definite time lag relay	(A)
	A CONTRACTOR OF THE PARTY OF TH	Question ID : 75322911417 Status : Answered Chosen Option : B
	I Join Co Fine	

Q.75



Identify the method of representation for wiring diagram as depicted above.

Ans

X A. Casing system

X B. Joint box system

✓ C. Looping back system

X D. Tree system

Question ID: 75322911492

Status: Answered

Chosen Option: C

Q.76 What is the name of the control gear that works as a current limiting device to counter negative resistance characteristics of any discharge lamps?

Ans

X A. Igniter

X B. Illuminance

C. Ballast

X D. Lux

Question ID: 75322911437

Status : **Answered**

Chosen Option: C

Q.77 What is the condition for most economical size of a transmission line conductor as per Kelvin's law?

Ans Annual interest and depreciation on capital cost of the conductor is slightly less than the annual running charges of the conductor.

B. Annual interest and depreciation on capital cost of the conductor is half of the annual running charges of the conductor.

X C. Annual interest and depreciation on capital cost of the conductor is slightly greater than the annual running charges of the conductor.

✓ D. Annual interest and depreciation on capital cost of the conductor is equal to annual running charges of the conductor.

Question ID: 75322911402

Status: Answered

Chosen Option: D

Q.78 What should be the minimum height of the switch board from floor for house wiring?

Ans X A. 2.5 m

✓ B. 1.5 m

X C. 2 m

X D. 1 m

Question ID: 75322911435

Status : **Answered**

Chosen Option: B

 $\textbf{Q.79} \quad \text{How is the rate of Rise of Restriking Voltage (RRRV}_{\text{max}}) \text{ calculated where L \& C are inductance and capacitance of the leaves the rate of Rise of Restriking Voltage (RRRV) and the rate of Rise of Restriking Voltage (RRRV) and the rate of Rise of Restriking Voltage (RRRV) and the rate of Rise of Restriking Voltage (RRRV) and the rate of Rise of Restriking Voltage (RRRV) and the rate of Rise of Restriking Voltage (RRRV) and the rate of Rise of Restriking Voltage (RRRV) and the rate of Rise of Restriking Voltage (RRRV) and the rate of Rise of Restriking Voltage (RRRV) and the rate of Rise of Restriking Voltage (RRRV) and the rate of Rise of Restriking Voltage (RRRV) and the rate of Rise of Restriking Voltage (RRRV) and the rate of Rise of Restriking Voltage (RRRV) and the rate of Rise of Restriking Voltage (RRRV) and the rate of Restriking Voltage (RRRV) and the rate of Restriking Voltage (RRRV) and the restriction of Restriking Voltage (RRRV) and the restriction of Restriction (RRRV) and the re$

circuit?

Ans

$$\times$$
 A. $(RRRV_{max}) = \frac{2V_{max}}{\sqrt{LC}}$, in kV/ μ s

$$\times$$
 c. $(RRRV_{max}) = \frac{2V_{max}}{LC}$, in kV/ μ s

$$\times$$
 D. $(RRRV_{max}) = \frac{v_{max}}{LC}$, in $kV/\mu s$

Question ID: 75322911484

Status : Answered

Chosen Option : A

Q.80 In a voltage regulating system a rotating arm moves, depending upon the terminal voltage, across a set of contacts, short circuiting some part or more of the resistance inserted in the exciter field circuit. What type of voltage regulator is this?

Ans

- X A. Zener voltage regulator
- X B. Terrill voltage regulator
- C. Brown Boveri regulator
- X D. Carbon pile voltage regulator

Question ID: 75322911431

Status: Marked For Review

Chosen Option : B

Q.81 Certain organisms utilise energy from wastes or dead organisms and cycle by returning the nutrients to the soil or water and to air		
Ans	X A. carbohydrates	
	X B. methane	
	C. ethane	
	✓ D. carbon di-oxide	
		Question ID : 75322911383 Status : Answered Chosen Option : D
Q.82	Instead of gasoline, what can be used as an index of the impact of additive for vehicles fuels?	using ethanol as an
Ans	X A. Peroxy acetyl nitrates (PAN)	
	✗ B. Peroxy propionyl nitrates (PPN)	
	C. Carbon dioxide/carbon monoxide	
	✓ D. PPN/PAN	
	POWER	Question ID : 75322911449 Status : Not Answered Chosen Option :
Q.83	Which of the following is NOT true for the star topology used with	PLC?
Ans	X A. Messages between two nodes must pass through the central no	ode (low throughput).
	X B. All nodes are dependent on a central node.	
	C. The wiring cost is less for large installations.	
	✗ D. Failure of the central node will crash the network.	
	P.d.	Question ID : 75322911458 Status : Answered Chosen Option : C

Q.84 A 3 φ, 4-pole induction motor is supplied from a 3 φ, 50 Hz AC supply. Find the rotor speed when the slip is 5%. Ans X A. 1350 RPM X B. 1710 RPM X C. 3420 RPM ✓ D. 1425 RPM Question ID: 75322911485 Status: Answered Chosen Option : D Q.85 What is the primary use of a stepper motor? X A. High starting torque X B. Linear movement C. Position control X D. Constant speed Question ID: 75322911369 Status: Answered Chosen Option: C Q.86 If position vectors of the points A and B are $2\vec{i} + \vec{j} - \vec{k}$ and $5\vec{i} + 4\vec{j} - 3\vec{k}$, find $|\vec{AB}|$ \times A. $\sqrt{30}$ units × B. √38 units \checkmark C. $\sqrt{22}$ units \times D. $\sqrt{90}$ units Question ID: 75322911467 Status : Not Attempted and Marked For Review Chosen Option: --

Q.87 Spacing between the conductors is made very large as compared to their diameters in the transmission line. What is the most important benefit out of it?

Ans X A. There may not be any skin effect.

X B. There may not be any Ferranti effect.

X C. There may not be any capacitance effect.

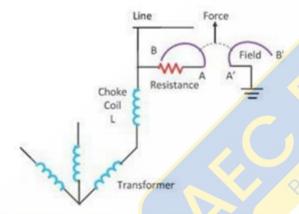
D. There may not be any corona effect.

Question ID: 75322911403

Status: Answered

Chosen Option : D

Q.88



Identify the type of lightening arrester from the above figure.

Ans

X A. Sphere gap arrester

X B. Impulse protective gap

X c. Rod gap arrester

✓ D. Horn gap arrester

Question ID: 75322911497

Status : **Answered**

Q.89 A transmission line has a span of 150 m between level supports. The conductor has a cross-sectional area of 2 cm². The tension in the conductor is 2000 kg. If the specific gravity of the conductor material is 9.9 gm/cm³ and wind pressure is 1.5 kg/m length, calculate the sag. Ans X A. 4.24 X B. 4.48 ◆ C. 3.48 X D. 4.84 Question ID: 75322911493 Not Attempted and Marked For Review Chosen Option: --Q.90 After having attained a temperature rise corresponding to continuous run on full load, a generator should be capable of withstanding overload for 15 seconds. X A. 75% Ans X C. 25% X D. 100% Question ID: 75322911432 Status: Marked For Review Chosen Option: C Q.91 What is the average wind velocity observed on Earth? X A. 14 m/sec Ans X B. 4 m/sec X C. 1 m/sec ✓ D. 9 m/sec Question ID: 75322911384 Status: Answered Chosen Option: A

Q.92 In this system the primaries of distribution transformers form a loop. The loop circuit starts from the substation bus bars, makes a loop through the area to be served and returns to the substation. What type of connection schemes of distribution system is this? A. Ring main system Ans B. Interconnected system X C. Overhead catenary system X D. Radial system Question ID: 75322911441 Status: Answered Chosen Option: A Q.93 Which insulating material is widely used for small molded parts such as lamp holder, terminal blocks and small panels? X A. Mica Ans B. Bakelite C. Marble and state X D. Porcelain Question ID: 75322911361 Status: Answered Chosen Option: B Q.94 How is the high rate of change of current prevented in a thyristor? X A. By connecting one capacitor in series with the thyristor X B. By connecting one resistor in series with the thyristor X C. By connecting one filter in series with the thyristor D. By connecting one inductor in series with the thyristor Question ID: 75322911390 Status: Answered Chosen Option: D

Q.95 What is the diversity factor of a power plant?

Ans

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

Maximum energy that could be generated B. diversity factor = Actual energy generated

Sum of individual maximum demands C. diversity factor = Maximum demand of entire group

Actual energy generated X D. diversity factor = -Maximum energy that could be generated

Question ID: 75322911482

Status: Answered

Chosen Option: C

Q.96 What will be the effect when a current of 20 to 50 mA passes through the human body?

Ans

X A. Painful shock (Muscular control is not lost)

X B. Painful shock (Muscular control is lost)

C. Perceptible but not painful (just bearable)

D. Severe muscular contraction (Breathing will be difficult)

Question ID: 75322911395

Status: Marked For Review

Q.97 What is the process for corrosion test of insulator?

Ans



The insulator with its galvanised or steel fittings is suspended in a copper sulphate solution for one minute. Then the insulator is removed from the solution and wiped, cleaned. Again, it is suspended in the copper sulphate solution for one minute. The process is repeated four times.

X B.

The insulator with its galvanised or steel fittings is suspended in a copper sulphate solution for two minutes. Then the insulator is removed from the solution and wiped, cleaned. Again, it is suspended in the copper sulphate solution for two minutes. The process is repeated four times.

X C.

The insulator with its galvanised or steel fittings is suspended in a copper sulphate solution for one minute. Then the insulator is removed from the solution and wiped, cleaned. Again, it is suspended in the copper sulphate solution for one minute.



The insulator with its galvanised or steel fittings is suspended in a copper sulphate solution for two minutes. Then the insulator is removed from the solution and wiped, cleaned. Again, it is suspended in the copper sulphate solution for two minutes.

Question ID: 75322911494 Status: Not Answered

Chosen Option : --

Q.98 What is the cause of buckling of plate in lead acid cells?

Ans

A. The cell is discharged or charged at a very high current than normal rate.

X B. The cell lying idle for several days.

X C. The use of improper distilled water.

X D. The short circuiting of plates.

Question ID : **75322911448**

Status: Answered

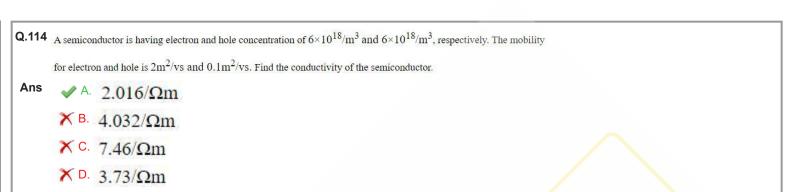
Q.99	A stepper motor has a step angle of 3°. Determine the numbe shaft to make 20 revolutions?	r of steps required for the
Ans	✓ A. 2400	
	X B. 3600	
	★ C. 1200	
	X D. 800	
		Question ID : 75322911462 Status : Answered
		Chosen Option : A
Q.100	Owhat is to be typed in the command prompt, following which pressed to change wire type in wire tool dialogue in AutoCAD	
Ans		-10
	X B. C	O.
	× c. x	
	X D. W	0 110
		Question ID : 75322911445
		Status : Not Attempted and Marked For Review
		Chosen Option :
Q.101	I Which department is responsib <mark>le for the enh</mark> ancement of the by performing research and development on modern techniq	
Ans		·
	✓ B. Technical department	
	★ C. Manufacturing department	
	✗ D. Quality control department	
	A	
	* /	Question ID : 75322911456
		Status : Answered Chosen Option : D
		Chosen Option . D

Q.102 What is the result of increase in volume of production in an industry? A. Deterioration in quality of products Ans B. Reduction in per unit cost of production X C. Increase in per unit cost of production X D. Improvement in quality of products Question ID: 75322911411 Status: Answered Chosen Option: B Q.103 A pair of Silicon Controlled Rectifiers (SCR) is used to control the output of the welding power transformer for the low frequency welding control. How are these SCRs connected with each other? X A. In cascaded connection Ans X B. In series connection C. In inverse parallel connection X D. In parallel connection Question ID: 75322911392 Status: Not Answered Chosen Option: --Q.104 Which type of heating is applied for paint drying and foundry molding? A. Radiant heating Ans X B. High frequency electric heating X C. Arc heating X D. Indirect resistance heating Question ID: 75322911442 Status: Answered Chosen Option: A

Q.105 Where can we use the shaded pole instruments? Ans A. For AC only X B. For low value of AC and DC X C. For high value of AC and DC X D. For DC only Question ID: 75322911352 Status: Marked For Review Chosen Option: A Q.106 What are the internal barrier voltages of a Germanium diode that opposes the applied voltage? X A. 1.1 V Ans X B. 0.7 V ✓ C. 0.3 V X D. 1.3 V Question ID: 75322911365 Status: Answered Chosen Option: C Q.107 Which device in a gas power plant is used to recover heat from the exhaust gases of the turbine? X A. Compressor Ans B. Regenerator X C. Combustion chamber X D. Governor Question ID: 75322911399 Status: Answered Chosen Option: B

MI - 4 t - 4 t - 4	
What is the term used for emission of electrons from metals surface with electrons?	s by bombarding the metal
X A. Field emission	
✓ B. Secondary emission	
X C. Photoelectric emission	
X D. Thermionic emission	
	Question ID : 75322911359 Status : Answered
	Chosen Option : B
If \vec{a} and \vec{b} are two vectors having same or opposite direction	ons, what are they said to be?
	510
	0,
Towns And Anna Control of the Contro	
	S A MINIS
Resolution vectors	
	Question ID : 75322911466
	Status : Answered
	Chosen Option : A
The energy gap between valence hand and conduction han	d in a semiconductor is
approximately	
X C. 0	
★ D. 10 eV	
	0 (: 15 7700044004
	Question ID : 75322911364
	Status : Answered
	✓ B. Secondary emission X C. Photoelectric emission X D. Thermionic emission If \vec{a} and \vec{b} are two vectors having same or opposite direction X A. Position vectors X B. Equal vectors C. Collinear vectors X D. Resolution vectors The energy gap between valence band and conduction ban approximately X A. 5 eV X B. 1 eV X C. 0

Q.111	A 4-pole, 3-phase star connected alternator had degrees. Determine the coil span factor.	as 48 slots. The coil span is 120 electrical		
Ans	✓ A. 0.866			
	★ B. 0.966			
	× C. 0.636			
	X D. 0.707			
		Question ID : 75322911459		
		Status : Answered Chosen Option : A		
		Sheedii Spilori . A		
Q.112	Which of the following connections for the property phase transformer is NOT possible?	rimary and sec <mark>ondary winding of</mark> a three-		
Ans	X A. Delta star			
	X B. Open delta	C.		
	✓ C. Open star			
	X D. Star delta			
	D. Star delta			
		Question ID : 75322911377		
		Status : Answered		
		Chosen Option : C		
	Which of the following sources are the first r	ate of pollutors?		
Ans	Which of the following sources are the first r A. Solvent extraction B. Spray painting C. Automobiles D. Industries	ate of politicis.		
	X B. Spray painting			
	✓ C. Automobiles			
	X D. Industries			
	A D. Massillo			
	100	Question ID : 75322911387		
		Status : Not Answered		
		Chosen Option :		



Question ID : **75322911490**Status : **Not Answered**Chosen Option : --

Q.115 Which of the following steps will NOT lower the soil resistance of the soil at earthing point?

Ans X A. Increase in pit area

X B. Increase in electrode area

X C. Chemical treatment of soil

D. Connecting number of electrodes in series

Question ID : 75322911429

Status : **Answered**

Q.116 What will be the EMF equation when synchronous motor is operating in leading power factor?

Ans

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

$$\checkmark$$
 B. E_f = [(V_t cos φ − IaRa)² + (V_t sin φ +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: 75322911486

Status: Answered

Chosen Option: A

Q.117 How do the Inductive Proximity sensors work?

Ans X A. By sensing the difference in temperature

B. By converting movement of person or thing

X C. By detecting the light beam reflected from the target

X D. By application of mechanical pressure

Question ID: **75322911368**

Status: Answered

Chosen Option: B

Q.118 What physical change will happen to the anode of a lead acid battery on charging?

Ans X A. Colour will change to slightly white.

X B. Colour will change to grey.

X C. Colour will change to slightly yellow

D. Colour will change to chocolate brown

Question ID: 75322911379

Status: Answered

	and current is altered in the two lamps?	
Ans	X A. To increase surface brightness	
	X B. To reduce shadow effect	
	C. To reduce stroboscopic effect	
	X D. To reduce glare effect	
		Question ID : 75322911434 Status : Answered Chosen Option : C
	What are the inputs for the NOR gate, for which output	t will be 1?
Ans	X A. 0, 1	
	★ B. 1, 1	C,
	★ C. 1, 0	
	✓ D. 0, 0	100 in
		Question ID : 75322911367 Status : Answered Chosen Option : D
Q.121	What type of charge should be provided continuously circuit breaker) to maintain its voltage?	to the trip coil battery (for the
Ans	✓ A. Trickle charge	
	X B. Booster charge	
	 ✓ A. Trickle charge ✓ B. Booster charge ✓ C. Periodic charge ✓ D. Routine charge 	
	➤ D. Routine charge	
	P.C.	Question ID : 75322911463 Status : Answered

Question ID: 75322911477 Status: Answered hosen Option: A
Status : Answered
Clos
C,
Question ID : 75322911436 Status : Answered hosen Option : B
n
Question ID : 75322911404 Status : Answered hosen Option : B

Q.125 Which of the following statements is NOT true about AC power transmission?

Ans A. AC line has capacitance. Therefore, there is a continuous loss of power due to charging current even when the line is open.

- X B. Due to skin effect in the AC system, the effective resistance of the line is increased.
- C. The AC voltage can be stepped up or stepped down by transformers with ease and efficiency. This permits to transmit power at high voltages and distribute it at safe potentials.
- D. The construction of an AC transmission line is less complicated than that of a DC transmission line.

Question ID: 75322911401

Status: Answered

Chosen Option: D

Q.126 Why is the cell of a lead acid battery constructed with multiple number of plates, all the positive plates are joined together and all the negative plates are joined together?

Ans A. To minimise the internal resistance and to reduce the plate size

- X B. Only for simplicity in construction
- X C. Only to reduce the plate size
- X D. Only to minimise the internal resistance

Question ID: 75322911380

Status : **Answered**

Chosen Option: D

Q.127 Which of the following is NOT true for a core type single-phase transformer?

Ans X A. Core is rectangular in shape of uniform cross-section.

X B. Cylindrical type coils are used

C. Coils are wound in helical layers with different layers, insulated from each other on two limbs.

D. Magnetic circuit is divided in two or more parts.

Question ID: 75322911375

Status : **Answered**

Q.128 What is the main working principle of Buchholz relay used in a three-phase transformer for internal protection? X A. Generation of acidity inside the transformer oil tank Ans X B. Increase in viscosity of the transformer oil X C. Increase in temperature inside the transformer oil tank D. Generation of hydrogen gas inside the transformer oil tank Question ID: 75322911378 Status: Answered Chosen Option: D Q.129 The rise time of a signal applied to a CRO is 0.5 µs. What is its bandwidth? X A. 0.05 MHz X C. 0.07 MHz X D. 0.2 MHz Question ID: 75322911358 Status: Answered Chosen Option: B Q.130 What is the command in MATLAB to get help on relational and logical operators? X A. Help punct X B. Help renlp X C. Help lisop D. help relop Question ID: 75322911444 Status: Not Answered Chosen Option: --

Q.131 To run the DC motors faster than the base speed the field flux must be reduced. What is the term used for the operation of the DC motor in this reduced flux region?

Ans X A. Field depletion region

B. Field weakening region

X C. Field reducing region

X D. Field enhancement region

Question ID: 75322911393

Status: Answered

Chosen Option: B

Q.132 What is the equation for the applied voltage between the core and the sheath for a Inters heath Grading cable, where R represents the radius of the outer sheath and g_{max} represents the peak value of electrical stress?

Ans

$$\times$$
 A. V = 1.881*R* g_{max}

$$✓$$
 B. $V = \frac{R*g_{max}}{1.881}$

$$\times$$
 c. $V = \frac{1.881 * g_{\text{max}}}{R}$

$$\times$$
 D. $V = \frac{1.881*R}{g_{max}}$

Question ID: **75322911495**

Status: Not Answered

Chosen Option : --

Q.133 How is the reactive power of the line capacitance during low loads in long EHV transmission lines compensated? X A. By power line carrier current equipment (PLCC) Ans B. By shunt reactor X C. By series capacitor X D. By static var sources (SVS) Question ID: 75322911440 Status: Answered Chosen Option : D In a binomial distribution if n = 18 and $p = \frac{1}{3}$, what is the value of variance? X A. 9 X B. 6 ✓ C. 4 X D. 2 Question ID: 75322911476 Status: Answered Chosen Option: B

Q.135 What is the output voltage of the three-phase full converter, also known as six pulse converter?

Ans

$$\times$$
 A. $\frac{3\sqrt{Vm}}{\pi}$ Cosa

$$\checkmark$$
 B. $\frac{3\sqrt{3}Vm}{\pi}$ Cosa

$$\times$$
 c. $\frac{\sqrt{3}Vm}{\pi}$ Cosa

$$\times$$
 D. $\frac{3\sqrt{3}Vm}{2\pi}$ Cosa

Question ID : 75322911480

Status : Answered

Chosen Option: C

Q.136 What is the sum of squares of the direction cosines of any straight line?

Ans



Question ID: 75322911349

Status: Not Answered

Q.137 Which of the following statements is NOT true of a bridge circuit?

Ans X A. The balance equation is independent of the magnitude of its input voltage and its source impedance.

- X B. The bridge circuit can be used in a control circuit.
- X C. The balance equation is independent of the sensitivity of the null detector.
- D. Accuracy is low.

Question ID: 75322911357

Status : **Answered**

Chosen Option: D

Q.138

Evaluate $\int_0^{\pi/2} \cos^2 x \, dx$:

Ans



 \times C. $\frac{\pi}{2}$

X D. 1

Question ID: 75322911488

Status : Answered

Chosen Option : B

Q.139 Which of the following instruments is a secondary instrument?

Ans

X A. Absolute electrometer

X B. Rayleigh's current balance

C. Pressure gauge

X D. Tangent galvanometer

Question ID: 75322911350

Status : Answered

Q.140 How is the step angle for stepper motor calculated?

Ans

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

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

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

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

Question ID: 75322911498

Status: Answered

Chosen Option: A

Q.141 If a sudden flow of electric charge between the electrical charge area of a cloud takes place, it is called:

Ans

X A. CB lightning

B. intra-cloud lightning

X C. CG lightning

X D. CC lightning

Question ID: 75322911415

Status: Answered

X A. Not less than 365.02 kg Ans X B. Not less than 455.02 kg C. Not less than 635.02 kg X D. Not less than 536.02 kg Question ID: 75322911394 Status: Answered Chosen Option: C Q.143 Which of the following is NOT an example of an energy substite as a measure for energy conservation? X A. Replacement of electric heaters by steam heaters Ans B. Replacement of wind power by thermal power C. Replacement of steam-based hot water by solar systems D. Replacement of coal by coconut shells, rice husk, etc Question ID: 75322911410 Status: Answered Chosen Option: B Q.144 Which of the following characteristics is NOT true for a synchronous motor? X A. It can be made to operate from lagging to leading power factor. X B. It has no self-starting torque. C. It requires no excitation at rotor. X D. The speed remains constant from no load to full load. Question ID: 75322911461 Status: Answered Chosen Option: C

Q.142 What should be the breaking strength of every guard wire according to IE rule 88?

Q.145

Evaluate: ∫ x log x dx

Ans

$$\times$$
 A. $\frac{x \log x}{2} - \frac{x^2}{4} + C$

$$\times B. \frac{x^2 \log x}{2} + \frac{x^2}{4} + C$$

$$\times$$
 D. $\frac{x \log x}{2} + \frac{x^2}{4} + C$

Question ID : 75322911469 Status : Answered

Chosen Option : C

Q.146 Which of the following is NOT one of the remedies for the phase displacement error in single phase induction type energy meter?

Ans

X A. Shading bands

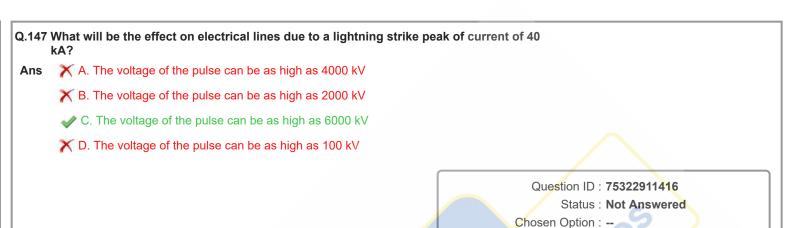
B. Capacitor in pressure coil

X C. Lag plate

X D. By using shading coil with a low value adjustable resistance

Question ID: 75322911446

Status : Answered





Q.149 Which of the following is included in the static Var compensator? A. Thyristor-controlled and Thyristor-switched reactor and Thyristor-switched capacitor Ans X B. Triac controlled and Thyristor-switched reactor and Thyristor-switched capacitor. X C. Triac controlled and Diac-switched reactor and Thyristor-switched capacitor X D. Diac controlled and Thyristor-switched reactor and Thyristor-switched capacitor Question ID: 75322911391 Status: Answered Chosen Option: A Q.150 A 4-pole generator having a simplex wave wound armature has 50 slots. Each slot contains 20 conductors. What will be the voltage generated in the machine when driven at 1500 RPM, assuming the flux per pole to be 8 m Wb? X A. 357 V Ans X B. 448 V X C. 200 V D. 400 V Question ID: 75322911447 Status: Answered Chosen Option : D Section: General Knowledge and Awareness Q.1 In 1911, where was a Durbar held in India to celebrate the occasion when King George V was crowned in England? X A. Pune Ans X B. Calcutta

C. DelhiD. Mumbai

Question ID : **75322911501**Status : **Answered**

Q.2	According to Human Development Report–2020, which of installed solar capacity?	rank did India secure in terms
Ans	X A. Third	
	X B. Fourth	
	✓ C. Fifth	
	X D. Sixth	
		Question ID : 75322911509 Status : Answered Chosen Option : B
2.3	In which state is Dree festival celebrated in the scenic a harvest for the state?	Ziro Valley to ensure a good
ns		
	➤ B. Sikkim	
	✓ C. Arunachal Pradesh	
	X D. Karnataka	
		Question ID : 75322911506
		Status : Answered Chosen Option : C
		Siloson spaint s
2.4	According to which Article of the Constitution of India power to issue writs?	do the High Courts have the
ns	✓ A. Article 226	
	A. Article 226 B. Article 241 C. Article 270	
	C. Article 270	
	D. Article 32	
	A	Question ID : 75322911518
	· /	Status : Answered
		Chosen Option : A

Ans X A. 34 B. 32 C. 30 D. 28 Q.6 To increase the solub under: Ans X A. low temperatur	ility of CO ₂ in soft drinks and soda wat	Question ID : 75322911504 Status : Not Answered Chosen Option : er, the bottles are sealed
C. 30 D. 28 Q.6 To increase the solub under:	ility of ${\sf CO}_2$ in soft drinks and soda wat	Status : Not Answered Chosen Option :
Q.6 To increase the solub under:	ility of \mathtt{CO}_2 in soft drinks and soda wat	Status : Not Answered Chosen Option :
Q.6 To increase the solub under:	ility of \mathtt{CO}_2 in soft drinks and soda wat	Status : Not Answered Chosen Option :
under:	ility of CO ₂ in soft drinks and soda wat	Status : Not Answered Chosen Option :
under:	ility of CO ₂ in soft drinks and soda wat	er, the bottles are sealed
B. high pressure		
C. moderate press	sure	
X D. low pressure		
	Sold,	Question ID : 75322911515 Status : Answered Chosen Option : B
Q.7 The first Statutory Na	tional Commission for Minorities was s	et up on:
Ans		
X B. 2 August 1992	dince	
X C. 19 March 1994		
X D. 3 July 1991	270	
	DO.	Question ID : 75322911499
	V	Status : Not Answered
		Chosen Option :

Q.8 Which of the following vegetations are found in the Eastern Himalayan floristic region? X A. Sheesham, neem, mahuwa, jamun, acacia and ber Ans X B. Teak, tendu, sal, palm and thorny shrubs X C. Acacias, cacti, wild palms, khejra and palas D. Oaks, laurels, maples, rhododendrons, alder, birch bamboos and tall grasses Question ID: 75322911511 Status: Answered Chosen Option: D Q.9 In which year was the 11th fundamental duty added to the Constitution of India, by the 86th Constitutional Amendment? Ans X A. 2003 B. 2002 X C. 2000 X D. 2001 Question ID: 75322911517 Status: Answered Chosen Option: B Q.10 Which of the following glaciers is situated in Kumaon region of Uttarakhand? X A. Chong Kumdan Glacier Ans X B. Hispar Glacier C. Pindari Glacier X D. Biafo Glacier Question ID: 75322911510 Status: Answered Chosen Option: A

In India, it is mandatory for the police to take any person custody to the nearest magistrate within	n arrested and detained in
A. 72 hours	
X B. 48 hours	
C. 96 hours	
✓ D. 24 hours	
	Question ID : 75322911516
	Status : Answered Chosen Option : D
	Glidacii Optidii . B
What was the approximate percentage of the people bel 2011–12, calculated using the Tendulkar Methodology?	ow poverty line in India in
X A. 37%	
✓ B. 22%	
★ C. 30%	
★ D. 45%	
	Question ID : 75322911508
	Status : Not Answered Chosen Option :
The definition of 'small loans' varies among countries.	n India, al <mark>l lo</mark> ans that are below
Can be considered as microloans. X A. ₹50,000	
B ₹1 00 000	
X C ₹1.50,000	
D. ₹2,00,000	
P	Question ID : 75322911507
	Status : Not Answered
	custody to the nearest magistrate within A. 72 hours B. 48 hours C. 96 hours D. 24 hours What was the approximate percentage of the people bel 2011–12, calculated using the Tendulkar Methodology? A. 37% B. 22% C. 30% D. 45% The definition of 'small loans' varies among countries. If can be considered as microloans.

Q.14	To which dynasty did the king Dhangadeva, who cons temple dedicated to Shiva, belong?	tructed the Kandariya Mahadeva
Ans	X A. Pallava dynasty	
	✓ B. Chandela dynasty	
	★ C. Chalukya dynasty	
	X D. Chola dynasty	
		Question ID : 75322911503 Status : Answered Chosen Option : B
Q.15	Which of the following organs of digestion produces i amount of sugar in the bloodstream?	nsulin, which controls the
Ans	✓ A. Pancreas	
	X B. Intestine	
	C. Liver	
	X D. Stomach	
		Question ID : 75322911513 Status : Answered Chosen Option : A
Q.16	Which festival is a yearly celebration held by the State first week of December?	Government of Nagaland in the
Ans		
	X B. Khajuraho dance festival	
	✓ C. Hornbill festival	
	➤ D. Pongal festival	
	A	Question ID : 75322911505 Status : Answered Chosen Option : C

Q.17	Who published the book 'Stripurushtulna', criticizing the men and women?	social differences between
Ans	X A. Vijaya Lakshmi Pandit	
	✓ B. Tarabai Shinde	
	X C. Pandita Ramabai	
	X D. Ratan Shastri	
		Question ID: 75322911502 Status: Not Answered Chosen Option:
Q.18	Who became the first Indian woman to win a Paralympic	gold medal?
Ans	✓ A. Avani Lekhara	10.3
	X B. Parul Parmar	
	C. Bhavina Patel	
	D. Deepa Malik	
		Question ID : 75322911500 Status : Answered Chosen Option : A
Q.19	Which mineral helps produce the active form of vitamin body?	A and transports it across the
Ans	✓ A. Zinc	
	A. Zinc ** B. Iron ** C. Potassium ** D. Iodine	
	C. Potassium	
	X D. lodine	
	P.d.	Question ID : 75322911514 Status : Answered Chosen Option : B

Q.20 Which of the following statements is NOT correct about the Indian census? Ans A. In India, the first complete census was taken in the year 1891.

X B. In India, the first census was held in the year 1872.

X C. A census is an official enumeration of population done periodically.

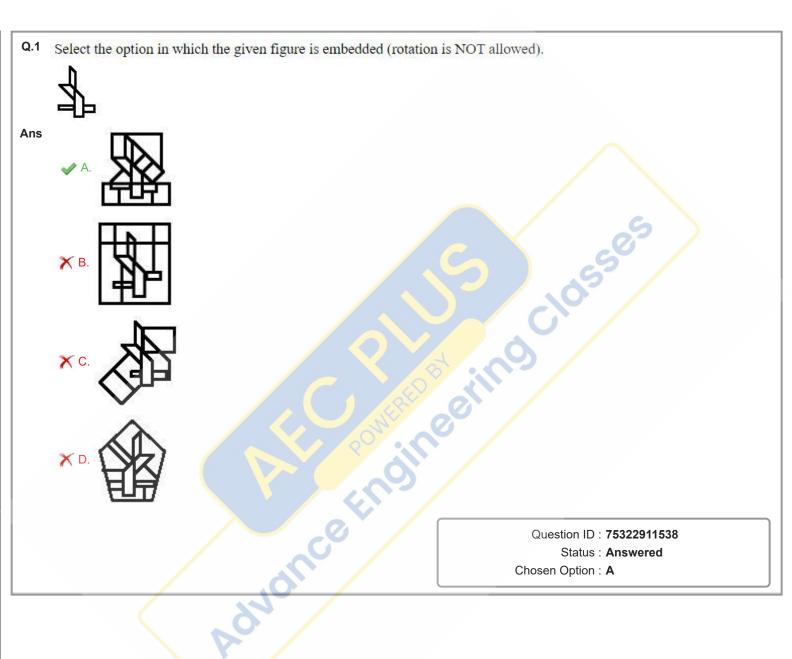
The Indian Census is the most comprehensive source of demographic, social and economic data.

Question ID: 75322911512

Status: Answered

Chosen Option : A

Section: Reasoning



Q.2 Five friends, A, B, C, D and E, live on five different floors - 1, 2, 3, 4 and 5 - of a building. B lives on floor 1 - the lowest floor. One person lives between C and A. Two persons live between B and E. D is just above B. One person lives between B and C. Who lives just above C? ✓ A. E Ans **※** B. B X C. A X D. D Question ID: 75322911522 Status: Answered Chosen Option: D Q.3 Select the correct option that indicates the arrangement of the given words in the order in which they appear in an English dictionary. 1. Horrible 2. Horticulture 3. Horses 4. Hoarding 5. Homely ✓ A. 4, 5, 1, 3, 2 Ans X B. 4, 5, 1, 2, 3 X C. 5, 4, 1, 3, 2 X D. 4, 1, 5, 3, 2 Question ID: 75322911525 Status: Answered Chosen Option: A

Q.4 Shalini's husband, Prakash, is the son of Kartik. Soumita is the wife of Nishant, who is the son of Janhvi. If Ankur's daughter, Janhvi, is married to Kartik, then how is Shalini related to Janhvi?

Ans

X A. Daughter

X B. Sister-in-law

X C. Sister

D. Daughter-in-law

Question ID: 75322911530

Status: Answered

Chosen Option : D

Q.5 Select the correct water image of the given combination.

Gh\$sf4Z

Ans

× G h \$ s 4 1 Z

× B G & d s f 4 Z

Oh\$sf4Z

Question ID : **75322911537**

Status : **Answered**

Q.6 Which two numbers need to be interchanged to make the given equation correct?

$$190 + 38 \div 19 - 57 \times 3 = 79$$

Ans

- X A. 190 and 57
- X B. 57 and 19
- C. 57 and 38
- X D. 3 and 19

Question ID: 75322911535

Status : Answered

Chosen Option: C

Q.7 In a code language, PLATES is written as FQUXJY. How will DORSAL be written in that language?

Ans

- A. WTIQFX
- X B. WUIQEX
- X C. VTHQFX
- X D. WSIRFX

Question ID: 75322911527

Status: Not Answered

Chosen Option: --

Q.8 Select the option that is related to the third word in the same way as the second word is related to the first word.

Flawless : Defective :: Boastful : ?

Ans

X A. Miser

X B. Shrewd

C. Modest

X D. Revengeful

Question ID: 75322911532

Status : **Answered**

Q.9 What approximate value should come in place of the question mark (?) in the following equation?

 $24.998 - 6.008 \times 4.003 + 35.998 \div 11.9897 \times 3.009 = ?$

Ans

- X A. 24
- X B. 8
- ✓ C. 10
- X D. 12

Question ID: 75322911534

Status : Answered

Chosen Option: C

Q.10 Kashvi starts from her home and walks 46 m towards the south. Then, she turns left and walks 34 m. After that, she turns right and walks 64 m. Then, she turns right again and walks 34 m. She finally turns left and walks 55 m to reach a shop. How far and in which direction is the shop with reference to her home?

Ans

- X A. 155 m, South
- X B. 165 m, North
- C. 165 m, South
- X D. 155 m, North

Question ID: 75322911529

Status : **Answered**

Chosen Option: C

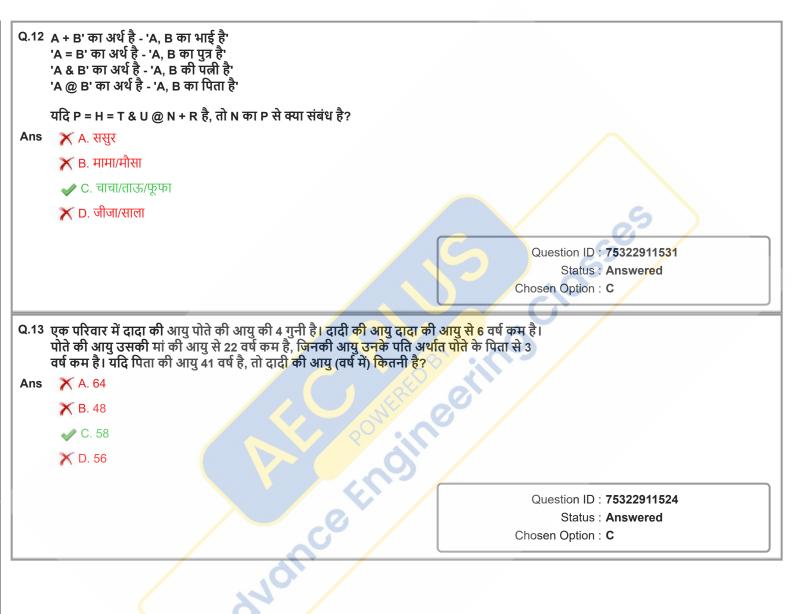
Q.11 In a code language, LIGHT is written as 61, and SOME is written as 56. How will CODIFY be written in that language?

Ans

- X A. 62
- X C. 66
- X D. 75

Question ID: 75322911528

Status: Not Answered



Q.14	Seven friends, A, B, C, D, E, F and G, are standing in a str to the immediate right of A. G is third from the left end of and D. F is at the right end. E is to the immediate left of C, of G. Who is at the third place from the right end of the ro	the line. Only A is between B who is to the immediate left
Ans	X A. E	
	X B. C	
	✓ C. A	
	★ D. B	
		Question ID : 75322911519 Status : Answered Chosen Option : C
Q.15	How many numbers are there in the given string of eleme preceded and immediately followed by a letter?	nts which are immediately
	34FD4S75D7G98BH9JLJYTFG3FV5B688	IYU7 9 5 R E 3 4 D H 5 B
Ans	★ A. 5	
	★ B. 8	
	✓ C. 7	
	★ D. 6	
		Out time ID - 75000044500
		Question ID : 75322911526 Status : Answered
		Chosen Option : C
	Advoince	

Q.16 In a class, Chetan scores the highest marks, whereas Vishal scores lowest marks. Kriti scores less marks than only 5 students and scores more marks than 17 students. How many students have scored less marks than Chetan in the class?
 Ans A. 21
 B. 23

X C. 20 **✓** D. 22

Question ID : 75322911521
Status : Answered

Chosen Option : B

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 ointments are tablets.

No tablet is an injection.

No injection is a mask.

Conclusions:

I. No ointment is an injection.

II. No ointment is a mask.

III. No tablet is a mask.

Ans

A. Only conclusion I follows

X B. Only conclusion I and III follow

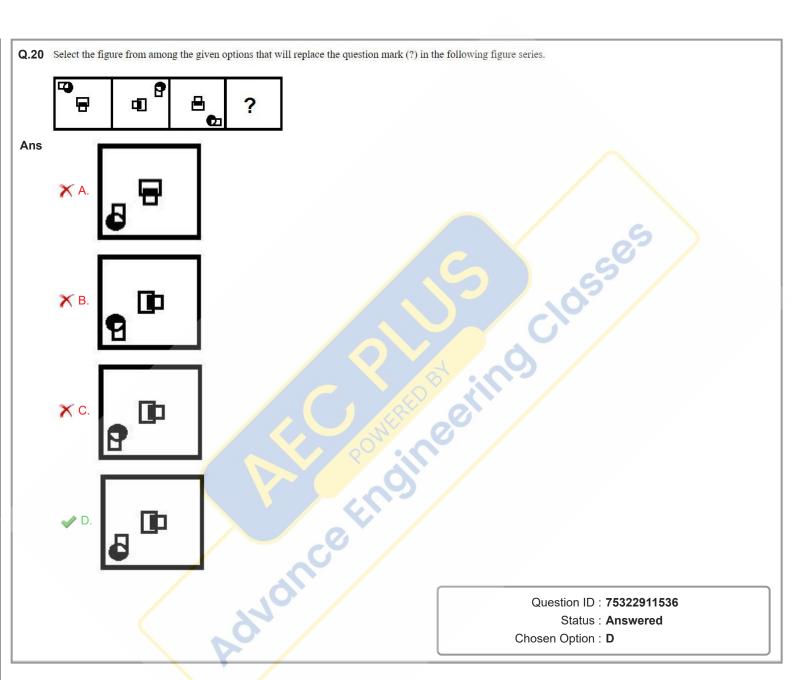
X C. Only conclusion II follows

X D. None of the conclusions follow

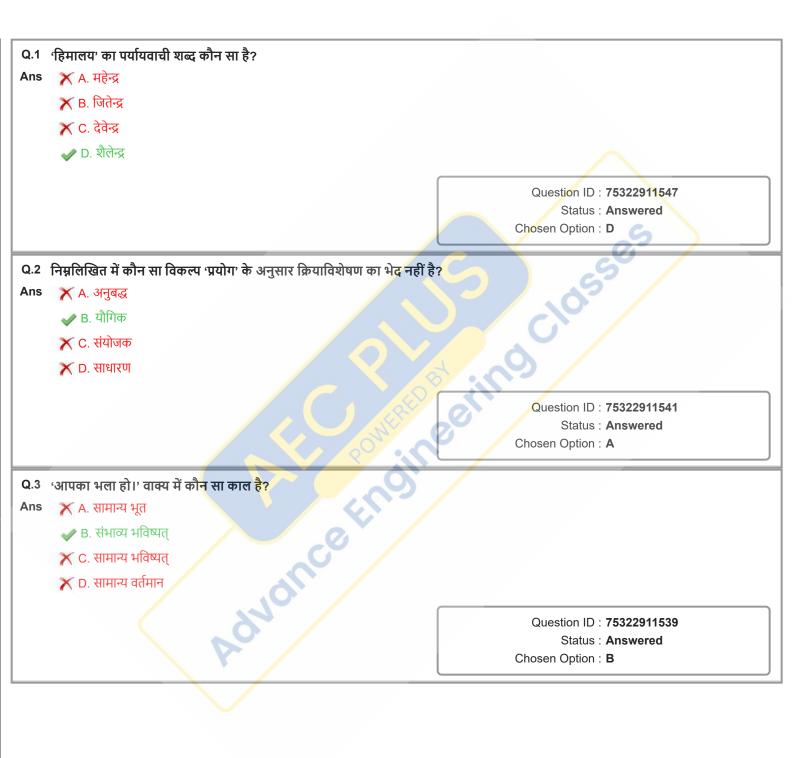
Question ID: 75322911523

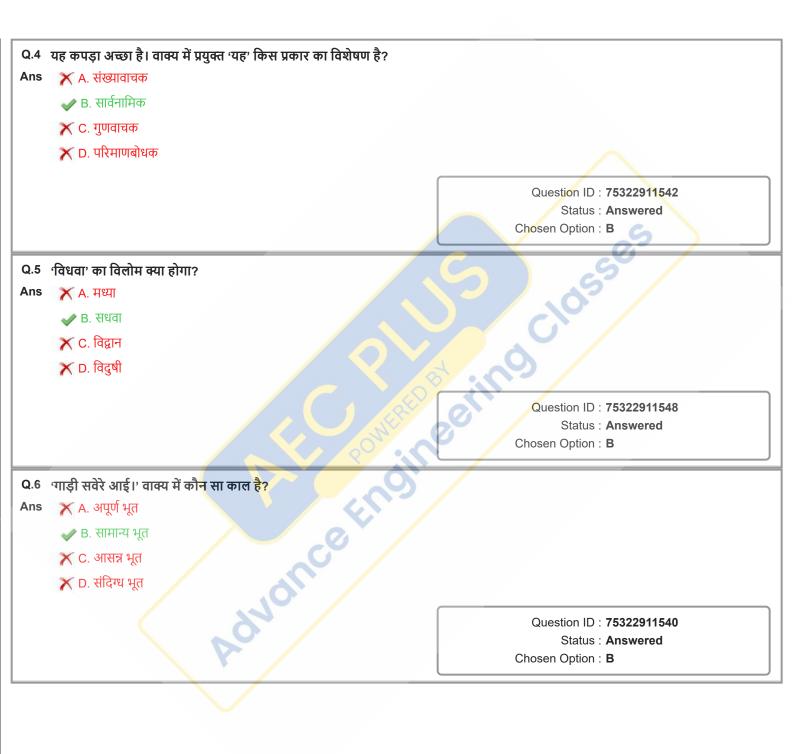
Status: Not Answered





Section : General Hindi





Q.7 'जरूरत भर की चीज' के अर्थ के लिए उपयुक्त लोकोक्ति कौन सी है? Ans 🗶 B. बूंद-बूंद से तालाब भरता है 🗶 C. बासी कढ़ी में उबाल आया \chi D. बिल्ली के सपने में चूहे Question ID: 75322911546 Status: Answered Chosen Option : A Q.8 'मध्यम पुरुष' के अंतर्गत कौन आता है? Ans 🟋 B. वक्ता 🗶 C. लेखक 🗶 D. वक्ता और श्रोता Question ID: 75322911544 Status: Answered Chosen Option: A 'हाथ-पांव फूल जाना' मुहावरे का सही अर्थ क्या है? 🗙 A. बीमार होना Ans 🗶 B. खूब प्रसन्न होना

🥒 C. डर से घबरा जाना

\chi D. क्रोधित होना

Question ID: 75322911545

Status: Answered

