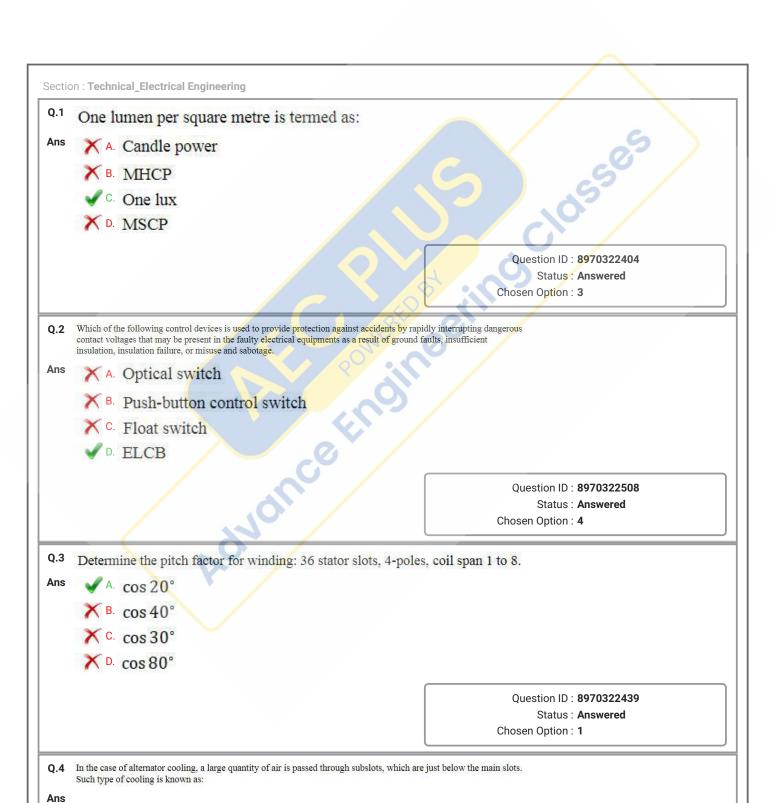
UPPCL JE EE 25 Nov 2019 Morning Shift



	A. Closed circuit ventilation		
	➤ B. Radial ventilation		
	C. Multiple inlet system of ventilation		
	Axial ventilation		
		Question ID: 8970322432	
		Status : Answered Chosen Option : 2	
		Onoscii option. 2	
.5	A hydroelectric generating station is supplied form a reservoir of capacity 6 million m^3 the potential energy stored in this water.	at a head of 170 m. Determine	
ns	× A. 10 ¹⁰ J		
	× B. 10 ⁹ J		
	× c. 10 ⁸ J		
	✓ D. 10 ¹² J	5	
		Oversite ID 007000 170	
		Question ID: 8970322470 Status: Answered	
		Chosen Option : 1	
Ans	A. It should always oppose the activating toro B. Damping system should produce damping torque only when C.	position is in motion	
ans	Damping system should produce damping torque only when C. Damping torque should be proportional to the velocity of pointer but independent of the velocity of the velocity of pointer but independen	position is in motion	
ins	B. Damping system should produce damping torque only when C.	position is in motion	
ns	Damping system should produce damping torque only when C. Damping torque should be proportional to the velocity of pointer but independent of the velocity of the velocity of pointer but independen	position is in motion	
ns	Damping system should produce damping torque only when C. Damping torque should be proportional to the velocity of pointer but independent of the velocity of the velocity of pointer but independen	position is in motion Indent of operating current Question ID: 8970322545 Status: Not Answered	
ins	Damping system should produce damping torque only when C. Damping torque should be proportional to the velocity of pointer but independent of the velocity of the velocity of pointer but independen	position is in motion adent of operating current Question ID: 8970322545	
	Damping system should produce damping torque only when C. Damping torque should be proportional to the velocity of pointer but independent of the velocity of the velocity of pointer but independen	Question ID: 8970322545 Status: Not Answered Chosen Option:	
).7	Damping system should produce damping torque only when C. Damping torque should be proportional to the velocity of pointer but indeperation of the controlling torque. Which of the following device/system is capable of operating in high temperature with p	Question ID: 8970322545 Status: Not Answered Chosen Option:	
).7	Damping system should produce damping torque only when C. Damping torque should be proportional to the velocity of pointer but indeperation of the controlling torque. D. It must not affect the controlling torque. Which of the following device/system is capable of operating in high temperature with predictly, corrosive atmospheres and withstand shock and vibration?	Question ID: 8970322545 Status: Not Answered Chosen Option:	
).7	Damping system should produce damping torque only when C. Damping torque should be proportional to the velocity of pointer but indeperation of the following device/system is capable of operating in high temperature with productive dirty, corrosive atmospheres and withstand shock and vibration? A. Laptop	Question ID: 8970322545 Status: Not Answered Chosen Option:	
).7	Damping system should produce damping torque only when C. Damping torque should be proportional to the velocity of pointer but independent of the controlling torque. Which of the following device/system is capable of operating in high temperature with product, corrosive atmospheres and withstand shock and vibration? A. Laptop B. iPad	Question ID: 8970322545 Status: Not Answered Chosen Option:	
).7	Damping system should produce damping torque only when C. Damping torque should be proportional to the velocity of pointer but indeperation of the following device/system is capable of operating in high temperature with product, corrosive atmospheres and withstand shock and vibration? A. Laptop B. iPad C. Personnel computer	Question ID: 8970322545 Status: Not Answered Chosen Option:	
Q.7	Damping system should produce damping torque only when C. Damping torque should be proportional to the velocity of pointer but indeperation of the following device/system is capable of operating in high temperature with product, corrosive atmospheres and withstand shock and vibration? A. Laptop B. iPad C. Personnel computer	Question ID: 8970322545 Status: Not Answered Chosen Option:	
Q.7	Damping system should produce damping torque only when C. Damping torque should be proportional to the velocity of pointer but indeperation of the following device/system is capable of operating in high temperature with product, corrosive atmospheres and withstand shock and vibration? A. Laptop B. iPad C. Personnel computer	Question ID: 8970322545 Status: Not Answered Chosen Option:	
Q.7	Damping system should produce damping torque only when C. Damping torque should be proportional to the velocity of pointer but indeperation of the following device/system is capable of operating in high temperature with product, corrosive atmospheres and withstand shock and vibration? A. Laptop B. iPad C. Personnel computer	Question ID: 8970322545 Status: Not Answered Chosen Option: Our power conditions in dusty, Question ID: 8970322444 Status: Answered Chosen Option: 4	
).7 .ns	Damping system should produce damping torque only when C. Damping torque should be proportional to the velocity of pointer but indeperation of the following device/system is capable of operating in high temperature with product, corrosive atmospheres and withstand shock and vibration? A. Laptop B. iPad C. Personnel computer D. PLC	Question ID: 8970322545 Status: Not Answered Chosen Option: Our power conditions in dusty, Question ID: 8970322444 Status: Answered Chosen Option: 4	
Q.7	Damping system should produce damping torque only when C. Damping torque should be proportional to the velocity of pointer but independent of the following device/system is capable of operating in high temperature with product, corrosive atmospheres and withstand shock and vibration? A. Laptop B. iPad C. Personnel computer D. PLC Which of the following standards has to be followed for drawing electrons.	Question ID: 8970322545 Status: Not Answered Chosen Option: Our power conditions in dusty, Question ID: 8970322444 Status: Answered Chosen Option: 4	

Question ID: 8970322492 Status: Not Answered

Chosen Option: --

Q.9 Which of the following statements is not true with regard to the cleat wiring systems?

Ans

- X A. The inspection, alteration and addition can be made easily
- X B. The installation and dismantling is easy and thick
- X c. It is very inexpensive and can be reused
- ✓ D. It is used for permanent wiring

Question ID: 8970322420 Status: Answered

Chosen Option: 1

What is the 1's complement of (-01101_2) ?

Ans

- X A. 01010₂
- X B. 10011₂
- √ c. 10010₂
- X D. 01011₂

Question ID : 8970322525 Status : Answered

Chosen Option: 3

Q.11 There exist three terminals in a relay called C, NO, NC. In an application, it is desired that whenever the relay is active the load must be connected to supply, otherwise the load will be disconnected from supply. Which of the following connection type in relay will provide solution to the stated problem?

Ans

- A. Supply to the NC terminal and load to the C terminal
- ✓ B. Supply to the C terminal and load to the NO terminal
- X c. Supply to the C terminal and load to the NC terminal
- No. Supply to the NC terminal and load to the NO terminal

Question ID: 8970322506 Status: Answered

Chosen Option : 3

Q.12 If the effective mass of the rain = M_e ton, acceleration = α km/sec², then the tractive force F_a is equal to:

Ans

- \checkmark A. $M_o \times \alpha \times 10^6$ N
- \times B. $M_e \times \alpha \times 10^3$ N
- \times C. $M_e \times \alpha \times 10^5$ N
- \times D. $M_e \times \alpha \times 10^4 \text{ N}$

Question ID: 8970322410

Status : **Answered** Chosen Option : **4**

Q.13 The required properties of traction batteries are:

Ans

- X A. High volumetric capacity and less service life
- X B. Low volumetric capacity and long service life
- V C

Constant output voltage, high resistance to vibration, and high volumetric and long service life

X D. Constant output voltage, low resistance to vibration

Question ID: 8970322466
Status: Answered
Chosen Option: 3

Q.14 In a moving iron instrument, the deflecting torque is:

Ans

- \times A. \propto i, where i is the current through the instrument
- \times B. $\propto 1/i^2$, where i is the current through the instrument
- \checkmark c. $\propto i^2$, where i is the current through the instrument
- \times D. $\propto 1/i$, where i is the current through the instrument

Question ID: 8970322547 Status: Answered Chosen Option: 3

Q.15 The cost of conductor material required can be reduced with the reduction in the volume of conduction material. This is possible with an:

Ans

- A increase in the frequency of the supply
- X B. increase in the transmission current
- C. increase in the transmission voltage
- X D. increase in the transmission power

Question ID: 8970322476 Status: Answered Chosen Option: 3

Find the decimal equivalent of the 6-bit binary number 101.101₂.

An

X A. 5.25₁₀

× B. 5.125₁0

√ c. 5.625₁₀

X D. 6.625₁₀

Question ID: 8970322530 Status: Answered Chosen Option: 3

- Q.17 To improve earth resistance for protection which of the following methods is/are used?
 - (i) Use longer ground rods
 - (ii) Chemically treat the soil
 - (iii) Use multiple ground rods

Ans

- X A. (i) and (ii)
- X B. (iI) and (iii)
- X c. (ii) only
- ✓ D. (i), (ii) and (iii)

Question ID: 8970322427
Status: Answered
Chosen Option: 2

Q.18 Consider the below points:

- (i) Distance between stops
- (ii) acceleration and retardation
- (iii) gradient
- (iv) train resistance

Which of the above factors affect the specific energy consumption in trains?

Ans

- X A. (i) and (ii) only
- √ B. (i), (ii), (iii) and (iv)
- X c. (ii) and (iii) only
- X D. (i), (ii) and (iii) only

Question ID: 8970322409
Status: Answered
Chosen Option: 2

Q.19 The energy stored in a magnetic field of length l metre and of cross-section A sq-m is:

Ans

$$\times$$
 A. $\frac{1}{2} \times A \frac{N^2}{\mu l} \times I^2$ J

$$\checkmark$$
 B. $\frac{1}{2} \times \mu A \frac{N^2}{l} \times I^2$ J

$$\times$$
 c. $\mu A \frac{N^2}{l} \times I^2$ J

$$\times$$
 D. $\frac{1}{2} \times \mu A \frac{N^2}{l} \times I$ J

Question ID : 8970322464 Status : Answered Chosen Option : 2

Q.20 Which of the following elements has/have approximate linear characteristics for resistance?



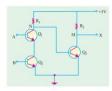
B. Thermistors C. Varistors X D. Diodes Question ID: 8970322535 Status: Answered Chosen Option: 3 Which lightning stroke is most dangerous? X A. Direct stroke on the ground wire ✓ B. Direct stroke on the line conductor C. Indirect stroke on the conductor No. Direct stroke on the tower top Question ID: 8970322493 Status: Answered Chosen Option: 3 Q.22 Three capacitors of 2 μ F, 5 μ F and 10 μ F have breakdown voltage of 200 V, 500 V and 100 V respectively. The capacitors are connected in series and the applied direct voltage to the circuit is gradually increased. Determine the total applied voltage at the point of breakdown. Ans ✓ A. 320 V X B. 150 V X c. 250 V X D. 100 V Question ID: 8970322469 Status: Answered Chosen Option: 4 is a temperature sensitive resistor, whose resistance decreases with increasing temperature. Q.23 X A. Proximity sensor X B. Copper wire sensor X c. Gold leaf sensor D. Thermistor Question ID: 8970322504 Status: Answered Chosen Option: 4 Q.24 Which of the following are the requirements for a good lighting system? (i) The illuminating source should have sufficient light. (ii) The illumination source should not strike the eyes. (iii) The illumination source should have suitable shades and reflectors. (iv) The illumination source should be installed at such a place so as to give uniform light. Ans X A. (ii), (iii) and (iv) X B. (i), (iii) and (iv)

- X c. (i), (ii) and (iv)
- √ D. (i), (ii), (iii) and (iv)

Question ID : **8970322412** Status : **Answered**

Chosen Option: 4

Q.25 If A and B are the logical inputs to the following circuit, determine the logical relation between the inputs and the output X.



Ans

- \checkmark A. X = AB
- $X = \overline{AB}$
- $X \circ X = \overline{A + B}$
- X D. X = A + B

Question ID: 8970322527 Status: Not Answered

Chosen Option: --

Q.26 A capacitor consists of two:

Ans

- A. conductors separated by an insulator
- X B. silver-coated insulators
- C. ceramic plates and one mica disc
- X D. insulators separated by a dielectric

Question ID: 8970322532 Status: Answered

Chosen Option: 4

Q.27 Which of the following sensors is used to measure the change in light quantity caused by the target crossing the optical

Ans

- A through-beam type sensor
- X B. LED
- X C. LASER
- X D. Reflective-type photoelectric sensor

Question ID : 8970322501 Status : Answered

Chosen Option: 4

Q.28 Which of the following is the advantage of a joint box system?

Ans X A. The fault location is easy to detect

	X c. It require least skilled labour			
	Ti require reast similed mooth			
	No chance of short circuit			
		Question ID : 8970322419 Status : Answered Chosen Option : 2		
2.29	A steel-cored aluminium conductor consists of central core of wires surroun	ded by a number of:		
Ans	✓ A. galvanised steel; aluminium stands			
	✗ B. copper; aluminium stands✗ C. aluminium; copper stands			
	No aluminium; steel stands			
	We State of the Control of the Contr	5		
		Question ID: 8970322478 Status: Answered		
		Chosen Option : 1		
2.30	Which of the following magnetic materials is preferred for very-high-frequency	communication systems?		
Ans	✓ A. Nickel-iron alloys containing up to 80% of			
	X B. Rolled steel			
	★ c. Forged steel	9		
	Nickel-iron alloys containing up to 20% of	fnickel		
		<u></u>		
		Question ID : 8970322537 Status : Answered		
		Chosen Option: 4		
2.31	Which of the following Indian Elec <mark>trical Rules describ</mark> es about the periodical inspecti	on and testing of consumer's		
i	Which of the following Indian Electrical Rules describes about the periodical inspections and the periodical inspections of the periodical inspection of the peri	on and testing of consumer's		
i	installation? A. Rule 56	on and testing of consumer's		
i	installation? A. Rule 56 B. Rule 46	on and testing of consumer's		
i	installation? A. Rule 56 B. Rule 46 C. Rule 54	on and testing of consumer's		
	installation? A. Rule 56 B. Rule 46	on and testing of consumer's		
i	installation? A. Rule 56 B. Rule 46 C. Rule 54	On and testing of consumer's Question ID: 8970322423 Status: Answered		

3 × rated symmetrical breaking current × rated service voltage



Rated symmetrical breaking current × rated service voltage

Question ID: 8970322454 Status: Answered Chosen Option: 4

Q.33 The energy stored in a coil with inductance L is determined as:

Ans

$$\times$$
 A. $\frac{L}{2I^2}$ J

$$\times$$
 B. $\frac{L}{2} \times \frac{dq}{dt}$ J

$$\times$$
 c. $2L \times \frac{dq}{dt}$ J

$$\checkmark$$
 D. $\frac{L}{2} \times \left(\frac{dq}{dt}\right)^2$ J

Question ID: 8970322462 Status: Answered

Chosen Option: 4

Q.34 The CPU module in the PLC is used to:

Ans

- X A. control the outputs only
- X B. execute the control program only
- X c. read inputs only
- V D.

read inputs, execute the control program and update outputs

Question ID: 8970322445 Status: Answered Chosen Option: 4

Q.35 In a dc generator, let P be the number of poles, φ be the flux per pole, Z be the number of armature conductors and A be the number of parallel paths in armature. If the generator runs at N rpm, then the generated emf per parallel path is:

Ans

$$\times$$
 A. $\frac{P\phi ZN}{\pi A}$ V

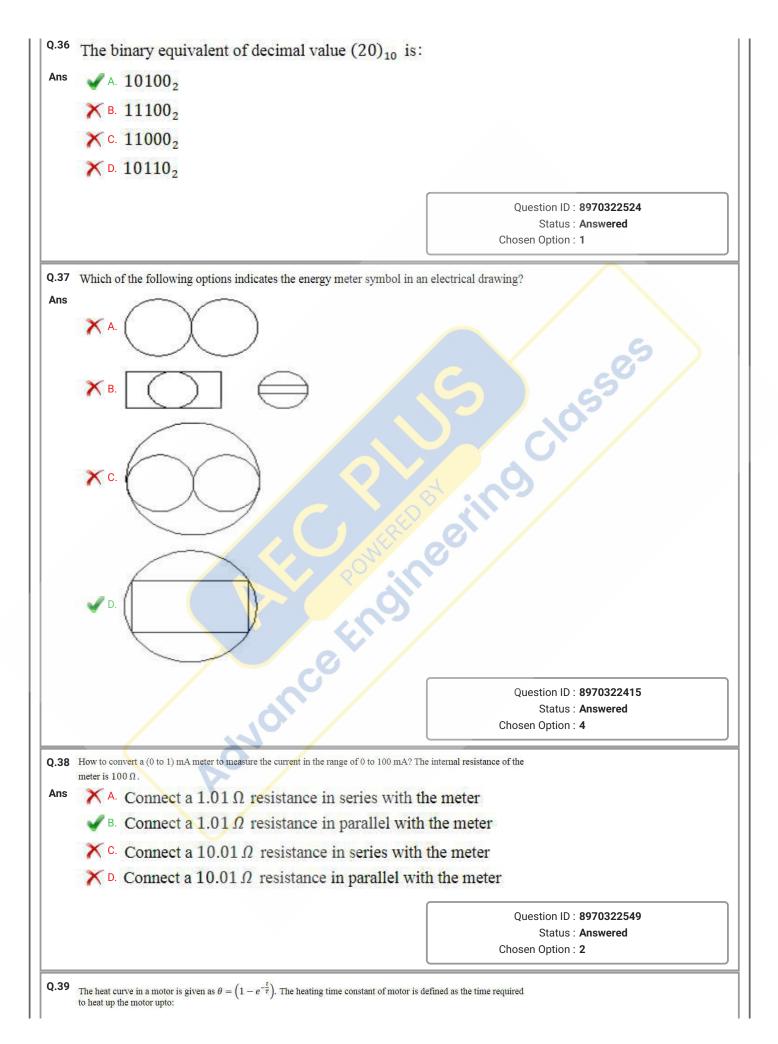
$$\times$$
 B. $\frac{P\phi ZN}{120A}$ V

$$\kappa$$
 c. $\frac{P\phi ZN}{\Delta}$ V

$$\checkmark$$
 D. $\frac{P\phi ZN}{60A}$ V

Question ID: 8970322516

Status : **Answered** Chosen Option : **4**



- \times A 0.333 times its final temperature rise, and it is equal to T
- \checkmark B. 0.633 times its final temperature rise, and it is equal to T



0.333 times its final temperature rise, and it is equal to T/2



0.633 times its final temperature rise, and it is equal to T/2

Question ID: 8970322498 Status: Answered Chosen Option: 2

The energy stored in a capacitor C could be determined as:

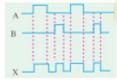
Ans

- \times A. $\frac{v^2}{c}$ J
- \times B. $\frac{Q^2}{C}$ J
- \times C. $\frac{v^2}{2C}$ J
- \checkmark D. $\frac{Q^2}{2C}$ J

Question ID: 8970322461 Status: Answered

Chosen Option: 4

Q.41 The input waves of a logic block A, B provide the logic output X. Identify the logic operation performed by the logic ducefind



- $X = \overline{A + B}$
- $X = \overline{AB}$
- \checkmark C. X = A + B
- X D. X = AB

Question ID: 8970322528 Status: Answered

Chosen Option: 2

Q.42 A hydro-electric generating station is supplied from a reservoir of capacity 5×10^6 cubic metre at a head of 200 metre. Find the total energy available in kWh if the overall efficiency is 75%.

- \checkmark A. 2×10^6 kWh
- \times B. 2×10^5 kWh
- \times C. 2×10^7 kWh
- \times D. 2×10^4 kWh

Question ID: 8970322490 Status: Answered

Chosen Option: 1

Which of the following is not a peak load power plant?

Ans

- X A. Gas plant
- X B. Solar and wind power plant
- X c. Diesel power plant
- ✓ D. Thermal power plant

Question ID : 8970322482 Status : Answered

Chosen Option: 4

Q.44 The MVM instruction in PLC stands for:

Ans

- X A. Move data from memory to memory
- X B. Move data via direct memory access
- X c. Move data from reg to memory
- ✓ D. Masked move

Question ID: 8970322450

Status : Answered

Chosen Option : 1

Q.45 In case of programmable automation, are there any changes/is there any change possible to be done in the sequence of operations?

Ans

- X A. Possible by changing the processor
- ✓ B. Possible by changing the program
- X c. Possible by changing the embedded system
- X D. Not possible

Question ID : 8970322441

Status: Not Answered

Chosen Option: --

- Q.46 To generate emf, which of the following methods may be used?
 - (i) Stationary field system with rotating armature
 - (ii) Stationary armature with rotating field system(iii) Stationary field and stationary armature

- X A. (i), (ii) and (iii)
- X B. (ii) only
- X c. (i) only
- √ D. (i) and (ii)

Question ID: 8970322433 Status: Answered

Chosen Option: 4

Q.47 A consumer has a maximum demand of 200 kW at 40% load factor. Find the units consumed per year.

Ans

- \times A. \approx 7 × 10⁶ kWh
- \times B. $\approx 7 \times 10^4$ kWh
- \times c. $\approx 7 \times 10^3$ kWh
- \checkmark D. $\approx 7 \times 10^5$ kWh

Question ID: 8970322500

Status: Answered

Chosen Option: 4

Q.48 It is decided that the copper rod earthing is to be installed, then the size of the rod required for earthing is:

Ans

- ✓ A. 12.5 mm
- X B. 19 mm
- X c. 12.5 cm
- X D. 19 cm

Question ID: 8970322426

Status : Answered

Chosen Option: 3

Q.49 In case of small power installations, the number of GI or copper plates required for earthing is:

Ans

- X A. 2
- X B. 3
- C. 1
- X D. 4

Question ID: 8970322425

Status : **Answered**

Chosen Option: 3

Q.50 In a half adder, the carry output is high if the inputs are:

Δno

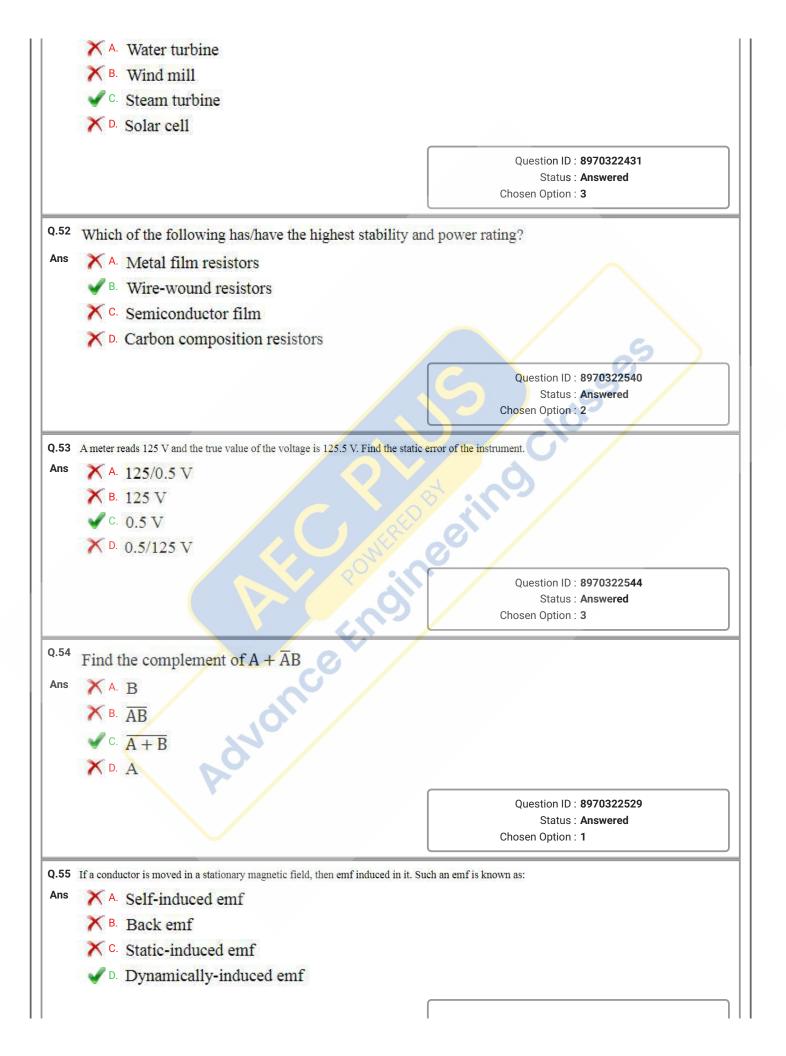
- ✓ A. 1,1
- X B. 0, 0
- X c. 0, 1
- X D. 1, 0

Question ID: 8970322522

Status: Answered

Chosen Option: 1

Q.51 The cylindrical rotor type alternators are driven by:



Chosen Option: 4

Q.56 The ratio of a power plant's actual output over a period of time to its potential output if it were possible for it to operate at full nameplate capacity continuously over the same period of time is known as:

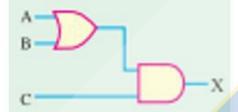
Ans

- X A. Demand factor
- X B. Diversity factor
- X c. Average load
- ✓ D. Plant capacity factor

Status : Answered

Chosen Option: 4

Q.57 Find the output X for the given logic circuit.



Ans

- $X = \overline{A} + \overline{B} C$
- \checkmark B. X = (A + B)C
- \times c. $X = \overline{AB} + C$
- X = (AB) + C

Question ID: 8970322521

Status : Answered

Chosen Option : $\boldsymbol{2}$

Q.58 Which of the following devices has a typical analog output?

Ans

- X A. Alarms
- X B. Horns
- X c. Pilot lights
- ✓ D. Pressure transmitter

Question ID: 8970322448

Status : **Answered**

Chosen Option: 4

Q.59 In alternator, the ratio $\frac{\text{vector sum of the induced emf per coil}}{\text{arthimetic sum of the induced emf per coil}}$ is known as:

- X A. Form factor
- X B. Power factor

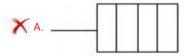
C. Pitch factor

N. P. RMS value

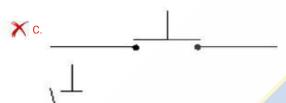
Question ID: 8970322435 Status: Answered Chosen Option: 3

Q.60 Identify the electrical symbol for isolator from the following options.

Ans







Question ID: 8970322491 Status: Answered Chosen Option: 4

Q.61 Which of the following faults occurs more frequently in power systems?

Ans

X A. Phase-to-phase fault

X B. Phase-to-phase and third phase to ground fault

X c. All the three phases are short circuited

✓ D. Line-to-ground fault

Question ID : 8970322452 Status : Answered

Chosen Option : 4

Q.62 In a PMMC instrument, the final steady state deflection is:

An

 \checkmark A. $\propto i$, where i is the current through the coil

 \times B. $\propto 1/i$, where *i* is the current through the coil

 \times c. $\propto i^2$, where i is the current through the coil

 \times D. $\propto 1/i^2$, where i is the current through the coil

Question ID : **8970322546** Status : **Answered**

For fuse: around 0. B. For fuse: around 0. C. For fuse: around 0. D. For fuse: around 0.	ime values of fuse and circuit break .02 second, and for circuit breaker: (0.002 0.2 second, and for circuit breaker: (0. 0.002 second, and for circuit breaker: (0.0 0.02 second, and for circuit breaker: (0.0 0.02 second, and for circuit breaker: (0.0 0.02 second, and for circuit breaker: (0.0	2 to 0.05) second 2 to 0.05) second 2 to 0.05) second 2 to 0.05) second Question ID: 8970322458 Status: Answered Chosen Option: 1
For fuse: around 0. B. For fuse: around 0. C. For fuse: around 0. D. For fuse: around 0. A PLC B. Micropro C. Discrete	0.2 second, and for circuit breaker: (0.0.002 second)	2 to 0.5) second 2 to 0.05) second Question ID: 8970322458 Status: Answered Chosen Option: 1
For fuse: around C. For fuse: around 0 D. For fuse: around 0 A PLC B. Micropro C. Discrete	0.2 second, and for circuit breaker: (0.0.002 second)	2 to 0.5) second 2 to 0.05) second Question ID: 8970322458 Status: Answered Chosen Option: 1
For fuse: around 0 C. For fuse: around 0 D. For fuse: around 0 A. PLC B. Micropro C. Discrete	0.002 second, and for circuit breaker: (0.0 0.02 second, and for circuit breaker: (0.0	2 to 0.05) second Question ID: 8970322458 Status: Answered Chosen Option: 1
For fuse: around 0 D. For fuse: around 0 Ans A. PLC B. Micropro C. Discrete	0.002 second, and for circuit breaker: (0.0 0.02 second, and for circuit breaker: (0.0	2 to 0.05) second Question ID: 8970322458 Status: Answered Chosen Option: 1
For fuse: around 0 D. For fuse: around 0 Ans A. PLC B. Micropro C. Discrete	0.02 second, and for circuit breaker: (0.	Question ID: 8970322458 Status: Answered Chosen Option: 1
For fuse: around of the following Ans Ans A. PLC B. Micropro C. Discrete	0.02 second, and for circuit breaker: (0.	Question ID: 8970322458 Status: Answered Chosen Option: 1
For fuse: around O.64 Which of the following Ans A. PLC B. Micropro C. Discrete		Question ID: 8970322458 Status: Answered Chosen Option: 1
Micropro C. Discrete		Question ID: 8970322458 Status: Answered Chosen Option: 1
Ans A. PLC B. Micropro C. Discrete	ng control devices is used to control/operate in	Status : Answered Chosen Option : 1
Ans A. PLC B. Micropro C. Discrete	ng control devices is used to control/operate in	Chosen Option : 1
Ans A. PLC B. Micropro C. Discrete	ng control devices is used to control/operate in	03
Ans A. PLC B. Micropro C. Discrete	ng control devices is used to control/operate in	dustrial equipment?
✗ B. Micropro✗ C. Discrete		
× c. Discrete		453
	ocessor	-10.
	analog devices	.0'
A 1) 13CD		
No. Dar		
		Question ID: 8970322507
		Status : Answered Chosen Option : 1
- 22-44		
.65 The daily load f	factor is calculated as:	
A 1	consumed per day	
	mand of the day	
	consumed per day demand of the day	
	demand of the day	
	consumed per day	
	mand of the day	
	consumed per day	
		Quarties ID : 907022240E
		Question ID : 8970322495 Status : Answered
		Chosen Option : 2
.66 The is a temporary	storage area used by the CPU to store a relatively a	mount of data for interim
calculations and control.		and of data to morali
Ans X A. scratch p	ad area: large	
X B. application	ad area, large	

✓ D. scratch pad area; small

Question ID: 8970322447 Status: Not Answered

Chosen Option: --

Q.67 Which of the following law states that "whenever the magnetic flux lining a conductor or coil changes, an emf is induced in it"?

Ans

- X A. Fleming's right hand rule
- B. Faraday's first law of electromagnetic induction
- X c. Lenz's law
- X D. Faraday's second law of electromagnetic induction

Question ID: 8970322512 Status: Answered Chosen Option: 2

Q.68 The nature of emf induced in the armature of a dc generator is _____ and it is converted into _____ by means of split rings.

Ans

- X A. de; ac
- X B. dc; dc
- X c. ac; ac
- V D. ac; dc

Question ID : 8970322514 Status : Answered

Chosen Option: 4

Q.69 The submarines for underwater movement are powered with the help of:

Ans

- X A. Wind engine
- ✓ B. Batteries
- X c. Solar engine
- X D. Geo-thermal engines

Question ID: 8970322494 Status: Answered

Chosen Option: 2

Q.70 In an alternator, when the armature current increases, the terminal voltage drops due to:

Ans

- X A. Armature reaction
- ✓ B.

Armature effective resistance, armature leakage reactance and armature reaction

- X c. Armature effective resistance
- X D. Armature leakage reactance

Question ID : **8970322437** Status : **Answered**

Q.71 Once a synchronous machine is synchronised, it will tend to remain in synchronism with the other alternators. Any tendency to depart from the condition of synchronism is _____ produced due to circulating current flowing through the alternators.

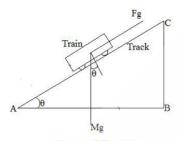
Ans

- X A. opposed by a motor torque
- X B. opposed by a load torque
- √ c. opposed by a synchronising torque
- X D. aided by a synchronising torque

Question ID: 8970322438 Status: Answered

Chosen Option: 3

Q.72 Find the tractive effort required to balance the gravitational pull for the train on an up-gradient as given in the below figure.



Ans

- K A. $F_g = Mg$ N
- κ B. $F_g = Mg\cos(\theta)$ N
- \times c. $F_g = Mg \tan(\theta)$ N
- \checkmark D. $F_g = Mg \sin(\theta) N$

Question ID: 8970322411 Status: Answered

Chosen Option: 4

Q.73 Let α be the angle, in electrical degrees, by which the span of the coil is less than a pole pitch in alternator. At the fundamental frequency, the pitch factor is equal to:

Ans

- \times A. cos α
- \sqrt{B} B. $\cos \frac{a}{2}$
- \times c. $\sin \alpha$
- \times D. $\sin \frac{\alpha}{2}$

Question ID: 8970322436 Status: Answered

Chosen Option : 2

Q.74 With respect to dynamometer type measuring instruments, choose the incorrect statement.

- ✓ A. They have a uniform scale
- X B. They can be used to measure both AC & DC

- C. They are free from hysteresis and eddy current losses
- No. They have Low torque/weight ratio

Ouestion ID: 8970322548 Status: Answered Chosen Option: 3

Q.75 The rate of rise of restriking voltage (RRRV_{max}) is defined as the slope of the steepness tangent of the restring voltage curve, and it is determined as:

Ans

$$\times$$
 A. $RRRV_{max} = \frac{v_{max}}{\sqrt{RL}}$

$$RRRV_{max} = \frac{v_{max}}{\sqrt{RC}}$$

$$\times$$
 c. $RRRV_{max} = \frac{v_{max}}{\sqrt{RLC}}$

$$\checkmark$$
 D. $RRRV_{max} = \frac{v_{max}}{\sqrt{LC}}$

Question ID: 8970322459 Status: Answered

Chosen Option: 4

With respect to alternator rotor types, select the correct option.

Ans



Salient pole rotor type: - causes speed fluctuation and suitable for high-speed operation. Cylindrical rotor type: - causes no speed fluctuation and suitable for low-and medium-speed operation.



Salient pole rotor type: - causes speed fluctuation and suitable for low-and medium-speed operation. Cylindrical rotor type: - causes no speed fluctuation and suitable for high-speed operation.



Salient pole rotor type: - causes no speed fluctuation and suitable for high-speed operation. Cylindrical rotor type: - causes speed fluctuation and suitable for low-and medium-speed operation.



Salient pole rotor type: - causes no speed fluctuation and suitable for low-and-medium speed operation. Cylindrical rotor type: - causes speed fluctuation and suitable for high-speed operation.

> Question ID: 8970322434 Status: Answered Chosen Option: 4

The typical potential of a lead electrode is:

Question ID: 8970322465 Status: Answered

Ans

- X A low permeability and high saturation flux density
- ✓ B. high permeability and high saturation flux density
- X c. low permeability and low saturation flux density
- X D. high permeability and low saturation flux density

Question ID: 8970322536 Status: Answered

Chosen Option : ${\bf 2}$

Q.79 One calory heat energy is equal to the electrical energy of:

Ans

- \times A. $\frac{10^{-3}}{86}$ kWh
- $\frac{10^{-4}}{860}$ kWh
- \times c. $\frac{10^{-3}}{8.6}$ kWh
- $\sqrt{ }$ D. $\frac{10^{-3}}{860}$ kWh

Question ID: 8970322485 Status: Answered

Chosen Option: 4

Q.80 The loads in metal cutting and drilling tool drives, drives for fork lift trucks, mine hoist etc. are considered to be:

Ans

- A Intermittent periodic duty in the starting
- X B. Short time duty
- X c. Continuous duty
- X D. Continuous duty with staring and braking

Question ID : 8970322408 Status : Answered

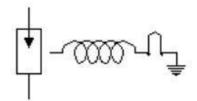
Chosen Option: 1

Q.81 The direction of the magnetic field around the current carrying conductor could be determined by:

An

- A. Right hand thumb rule
- X B. Left hand thumb rule
- X c. Lenz's law
- No. Fleming's right hand rule

Question ID: 8970322511 Status: Answered



What does the above symbol indicate in an electrical drawing?

Ans

- ✓ A. Lightning arrestor
- X B. Isolator
- X c. Exhaust fan
- X D. Current transformer

Question ID : 8970322416 Status : Answered Chosen Option : 1

Q.83 The capacitance of a capacitor is NOT influenced by:

Ans

- X A. Conductive plate separation
 - ✓ B. Conductive plate thickness
 - X c. Conductive plate area
 - Nature of the dielectric between the plates

Question ID: 8970322539 Status: Answered Chosen Option: 2

Q.84 Which of the following is not run with the help of DC supply?

Ans

- X A. Compound motor
 - X B. Series motor
 - X c. Shunt motor
 - ✓ D. Squirrel cage motor

Question ID: 8970322401 Status: Answered Chosen Option: 4

Q.85 The maintenance cost for the electrical equipment is called:

Ans

- X A. Depreciation cost
- X B. Investment cost
- X c. Auxiliary cost
- ✓ D. Operating cost

Question ID: 8970322429 Status: Answered

Chosen Option: 1 Q.86 In the measuring instruments, the degree of conformity and closeness to the true value is known as: X A. Precision X B. Deflecting torque C. Measuring scale D. Accuracy Question ID: 8970322541 Status: Answered Chosen Option: 1 Q.87 The surge tanks are usually provided in high or medium head ______ power plants when considerably _ Ans X A hydro-electric, short penstock ✓ B. hydro-electric, long penstock X c. thermal, short penstock X D. thermal, large steam turbine Question ID: 8970322484 Status: Answered Chosen Option: 2 An XNOR gate produces an output only when the two inputs are: Ans X A. high X B. different C. low D. same Question ID: 8970322523 Status: Answered Chosen Option: 4 The generation of power in a power plant has to be controlled to meet the: Q.89 X A. demand of load and power factor X B. demand of load only C. demand of load and frequency X D. frequency and power factor Question ID: 8970322483 Status: Answered Chosen Option: 3 In an electrical wiring, the fuse should be placed:

- X A. in earth wire
- ✓ B. in live or phase wire
- X c. in lamp directly
- X D. neutral wire

Question ID: 8970322418

Status: Answered

Chosen Option: 2

Q.91 The overall efficiency of a steam power station is computed as:

Ans

- steam energy
 - heat of combustion of coal
- B. heat equivalent of electrical output

 Heat of combustion of coal
- C. heat equivalent of mech energy transmitted to turbine shaft
 Heat of coal combustion
- D. heat of combustion of coal

Question ID: 8970322487 Status: Answered

Chosen Option: 2

Q.92 In terms of energy bands, insulators have:

Ans

- X A. full conduction band
 - X B. very small energy gap
 - √ c. full valence band
 - X D. moderate energy gap

Question ID: 8970322533

Status: Answered

Chosen Option: 3

Q.93 When a lead-acid cell is recharged, the H_2 ions move to cathode and SO_4 ions go to anode. The following changes then

Ans

- At Cathode: $PbSO_4 + H_2 \rightarrow Pb + H_2SO_4$
 - At Anode: $PhSO_4 + 2H_2O \rightarrow PbO_2 + 2H_2SO_4$
- At Cathode: $PbSO_4 + H_2 \rightarrow Pb + H_2SO_4$
 - At Anode: $PhSO_4 + H_2O \rightarrow PbO_2 + H_2SO_4$
- \times c. At Cathode: $PhSO_4 + H_2O \rightarrow PbO_2 + H_2SO_4$
 - At Anode: $PbSO_4 + H_2 \rightarrow Pb + H_2SO_4$
- At Cathode: $PhSO_4 + 2H_2O \rightarrow PbO_2 + 2H_2SO_4$

At Anode: $PbSO_4 + H_2 \rightarrow Pb + H_2SO_4$

Question ID: 8970322468

Status : Answered

Chosen Option: 1

Q.94 Let V be the terminal voltage, I_a be the armature current and I_{sh} be the shunt current. The power delivered to a load of a self-excited dc shunt generator is:

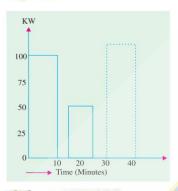
Ans

$$\checkmark$$
 c. $V \times (I_a - I_{sh}) W$

$$\times$$
 D. $V \times (I_a + I_{sh}) W$

Question ID: 8970322517 Status: Answered Chosen Option: 4

Q.95 Determine the suitable size of a continuously rated motor for the following load curve. The load has a repeated pattern every 30 min.



Ans

- \times A. \approx 81 kW
- \times B. $\approx 51 \text{ kW}$
- \times c. $\approx 77 \text{ kW}$
- √ D. ≈ 67 kW

Question ID: 8970322499 Status: Answered Chosen Option: 4

Q.96 If a single motor drives a number of machines through belts from a common shaft, such a type of drive system is known as:

Ans

- A. Individual drive
- X B. Complex motor drive
- X c. Multi motor drive
- D. Group drive

Question ID : **8970322405**Status : **Answered**Chosen Option : **4**

Which of the following points represent the essential features of a switchgear?

- (i) Complete reliability
- (ii) Absolutely certain discrimination
- (iii) Quick operation
- (iv) Provision for manual control

Ans

- X A (ii), (iii) and (iv) only
 - X B. (i), (iii) and (iv) only
 - √ c. (i), (ii), (iii) and (iv)
 - X D. (i), (ii) and (iii) only

Question ID: 8970322453
Status: Answered

Chosen Option : 3

Q.98 Which of the following can be placed near the main board to protect the whole installation?

Ans

- A. ELCB
- X B. Main switch
- X c. MCB
- X D. Energy meter

Question ID : 8970322424 Status : Answered

Chosen Option: 3

Q.99 The initial temperature of machine is 45 °C. Calculate the temperature of machine after 1.2 hours, if its final steady temperature rise is 85 °C and the heating time constant is 2.4 hours. Consider ambient temperature ass 25 °C.

Ans

- \times A. $(85 25e^{-0.5})$ °C
- \times B. $(25-65e^{-0.5})$ ° C
- \times c. $(110-65e^{-0.5})$ °C
- \checkmark D. $(85 65e^{-0.5})$ ° C

Question ID: 8970322497

Status: Answered

Chosen Option: 2

Q.100 Which option represents the correct sequence of the flow of the electrical power from the generating station to the load.

Ans

- X A. Primary transmission, secondary distribution
- X B. Primary transmission, primary distribution
- X c. Primary transmission, secondary transmission

V D.

Primary transmission, secondary transmission, primary distribution and secondary distribution

Question ID: 8970322471

Status : Answered

Q.101 The equipment that is used to disconnect the main under no-load condition for safety isolation and maintenance is called:

Ans

X A Earthing switch

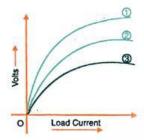
✓ B. Isolators

X c. Busbar

X D. Line trap

Question ID: 8970322430 Status: Answered Chosen Option: 2

Q.102 The V-I characteristics of a dc series generator are given in the following figure.



Choose the appropriate labels for the three plots.

Ans

1-OCC, 2- Internal Characteristics, and 3- External characteristics



1- Internal Characteristics, 2-OCC, and 3- External characteristics



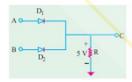
1-External Characteristics, 2-OCC, and 3-Internal characteristics



1-OCC, 2-External Characteristics, and 3-Internal characteristics

Question ID : 8970322520 Status : Answered Chosen Option : 2

Q.103 If A and B are the logical inputs to the following circuit, determine the logical relation between the inputs and the output C.



Ans

$$\times$$
 A. $C = \overline{AB}$

$$\times$$
 B. C = AB

$$\times$$
 c. $C = A xor B$

$$\checkmark$$
 D. $C = A + B$

Question ID: 8970322526

Status: Answered Chosen Option: 1

Q.104 Which of the following control methods is not preferred for ac drives?

- X A. Changing the supply frequency
- X B. Injecting resistance in the rotor circuit
- ✓ C. Field control method
- X D. Changing the supply voltage

Question ID: 8970322407 Status: Answered Chosen Option: 3

Q.105 Which of the following characteristics is not an electrical characteristic considered during the selection of a motor?

- A. Running characteristics
- X B. Starting characteristics
- C. Transmission of drive
- X D. Speed control

Question ID: 8970322406 Status: Answered

Chosen Option: 3

Q.106 In railway electrification, the voltage and frequency, respectively, of the three-phase ac system are:

- X A. 25 kV and 50 Hz
- ✓ B. 3 to 3.5 kV and 16^{2/3} Hz
- X c. 1500 V and 50 Hz
- X D. 600 V and 50 Hz

Question ID: 8970322403 Status: Answered

Chosen Option: 1

Q.107 In terms of energy bands, semiconductors can be defined as those materials that have:

Ans



almost an empty conduction band and almost filled valence band with a very narrow energy gap between the conduction and valence band



almost an empty conduction band and almost filled valence band with a very high energy gap between the conduction and valence band



almost an empty conduction band and low filled valence band with a very narrow energy gap between the conduction and valence band



almost full conduction band and almost filled valence band with a very narrow energy gap between the conduction and valence band

Question ID: 8970322538

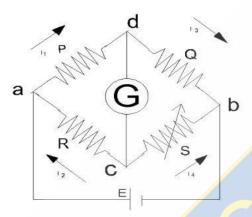
Status: Answered

Ans

- X A self-reliant only
- ✓ B. self-acting, self-regulating and self-reliant all
- X c. self-regulating only
- X D. self-acting only

Question ID: 8970322443
Status: Answered
Chosen Option: 2

Q.109 Determine the unknown resistance R in the given network, if the galvanometer reads zero.



Ans

- \nearrow A. $R = \frac{P \times Q}{S}$
- $R = \frac{Q}{P}S$
- \checkmark c. $R = \frac{P}{Q}S$
- \nearrow D. $R = \frac{P-Q}{S}$

Question ID : **8970322550** Status : **Answered**

Chosen Option: 3

Q.110 A 100 MW steam station uses coal of calorific value 6400 kcal/kg. Thermal efficiency of the station is 30% and electrical efficiency is 92%. Find the overall efficiency of the plant.

Ans

- X A. 92%
- X B. 30%
- ✓ c. 27.6%
- X D. 62%

Question ID : **8970322489** Status : **Answered**

- X A It provides better working conditions for workers
- B. It decreases unemployment
- X c. There is an increase in productivity
- X D. There is a reduction in the production cost

Question ID: 8970322442 Status: Answered

Chosen Option: 2

Q.112 is an electromechanical device that consists of an actuator mechanically linked to a set of contacts. When an object comes into the contact with the actuator, the device operates the contacts to make or break an electrical

Ans

- X A. A relay
- X B. A photoelectric switch
- X c. A circuit breaker
- D. A limit switch

Question ID: 8970322503 Status: Answered

Chosen Option: 4

Q.113 Consider the below points:

- (i) Minimum size of cable
- (ii) Voltage drop
- (iii) Current carrying capacity
- (iv) Type of insulation used

Which of the above constitute specifications that need to be considered while selecting wires? 3Ince Find

Ans

- √ A. (i), (ii), (iii) and (iv)
- X B. (i) and (ii)
- X c. (ii), (iii) and (iv)
- X D. (i), (ii) and (iii)

Question ID: 8970322422

Status: Answered

Chosen Option: 1

Q.114 Let w be the weight per unit length of the conductor, H be the horizontal tension, and l be the span length, then the sag in a freely suspended conductor is determined as:

$$\times$$
 A. $\delta = \frac{wl}{8H}$

$$\times$$
 B. $\delta = \frac{wl}{4H}$

$$\checkmark$$
 C. $\delta = \frac{wl^2}{8H}$

$$ightharpoonup$$
 D. $\delta = \frac{wl^2}{4H}$

Status: Answered Chosen Option: 3 Q.115 Which of the following Indian Electrical Rules describes the guarding in an electrical system? Ans A. Rule 88 X B. Rule 84 X C. Rule 85 X D. Rule 75 Question ID: 8970322417 Status: Not Answered Chosen Option: --Q.116 The load side typical distribution system has: Ans X A. 3 wire 440 V X B. 4 wire, 440 V ✓ c. 4wire, 440 V X D. 1 wire, 230 V Ouestion ID: 8970322473 Status: Answered Chosen Option: 3

Q.117 In the overhead system, the maximum disruptive stress exists between the:

Ans

- X A. phase conductor and neutral
- ✓ B. conductor and the earth
- X c. conductors
- X D. conductor and pole

Question ID: 8970322474
Status: Answered
Chosen Option: 3

Q.118 The use of optical isolation in the input module side of a controller device is to:

Ans

A.

reduce the effect of electrical noise and prevent damage to the processor due to line voltage transient

X B.

prevent damage to the processor due to line voltage transient

- X c. provide common ground
- X D. reduce the effect of electrical noise

Question ID: 8970322449 Status: Not Answered

Chosen Option: --

Q.119 Line-to-ground fault occurs:

X A due to short circuit between two conductors due to insulation breakdown between one of the phase and earth due to the breakdown of insulation between two phases and simultaneous breakdown of insulation between the third phase and earth X D. due to fault breakdowns of insulation between two phases and earth occur Question ID: 8970322451 Status: Answered Chosen Option: 2 Q.120 The overall efficiency of a steam power plant is about X A. 56% ✓ B. 29% X c. 45% X D. 66% Ouestion ID: 8970322488 Status: Answered Chosen Option: 2 Q.121 The law that describes the economic choice of conductor size is: X A. Fleming's Law X B. Ohm's law X c. Faraday's law D. Kelvin's law Question ID: 8970322477 Status: Answered Chosen Option: 4 Q.122 Which of the following statements is not true with respect to ac transmission systems? X A. The maintenance of ac sub-stations is easy and inexpensive. The ac voltage can be stepped up or stepped down by transformers with ease and efficiency. C. Due to skin effect in the ac system, the effective resistance of the line is decreased. The power can be generated at high voltages. Question ID: 8970322475 Status: Answered Chosen Option: 1



What does the above symbol indicate in an electrical wiring drawing?

Ans

- X A. Socket outlet 15 A.
- X B. Fuse
- ✓ C. Socket outlet 5A
- X D. Bulk head

Question ID: 8970322413 Status: Answered Chosen Option: 3

Q.124 Active materials of a lead-acid cell are:

- A Lead peroxide, sponge lead and dilute sulphuric acid
- X B. Lead peroxide and filler caps
- X c. Lead peroxide and pillar
- X D. Sponge lead and pillar

Question ID: 8970322467 Status: Answered Chosen Option: 1

Q.125 The terminal voltage of a long shunt dc generator could be determined as:

Ans
$$\times$$
 A. $V = E_g + I_a R_a$

$$\times$$
 B. $V = E_g - I_a R_a$

$$\times$$
 c. $V = E_g + I_a(R_a + R_s)$

$$\checkmark$$
 D. $V = E_g - I_a(R_a + R_s)$

Question ID: 8970322518 Status: Answered Chosen Option: 4

Q.126 The SF₆ circuit breakers are preferred for the substation with:

Question ID: 8970322455 Status: Not Answered

The fusing factor of a fuse is determined as:

Ans

- A. current rating of fuse
- \times B. $\frac{\sqrt{3} \times \text{current rating of fuse}}{\text{fuse current}}$
- \times c. $\sqrt{3} \times \frac{\text{fuse current}}{\text{current rating of fuse}}$
- ✓ D. fuse current current rating of fuse

Question ID: 8970322456 Status: Answered Chosen Option: 4

Q.128 A 25-kVA transformer has 500 turns on the primary and 50 turns on the secondary winding. The primary is connected to a 3000-V, 50-Hz supply. Find the full-load primary and secondary currents.

Ans

- \times A. $I_p = 83.3 \text{ A}, I_s = 83.3 \text{ A}$
- \times B. $I_p = 83.3 \text{ A}, I_s = 8.33 \text{ A}$
- \times c. $I_p = 833 \text{ A}, I_s = 83.3 \text{ A}$
- \checkmark D. $I_p = 8.33 \text{ A}, I_s = 83.3 \text{ A}$

Question ID : 8970322519 Status : Answered

Chosen Option: 4

Q.129 Which of the following materials has the least resistivity?

Ans

- A. Copper
- X B. Iron
- X c. Carbon
- X D. Brass

Question ID: 8970322534 Status: Answered

Chosen Option : 1

Q.130 With respect to liquid fuels, which statement of the following is incorrect?

Ans

- X A. The combustion of liquid fuels is uniform.
- **X** B.

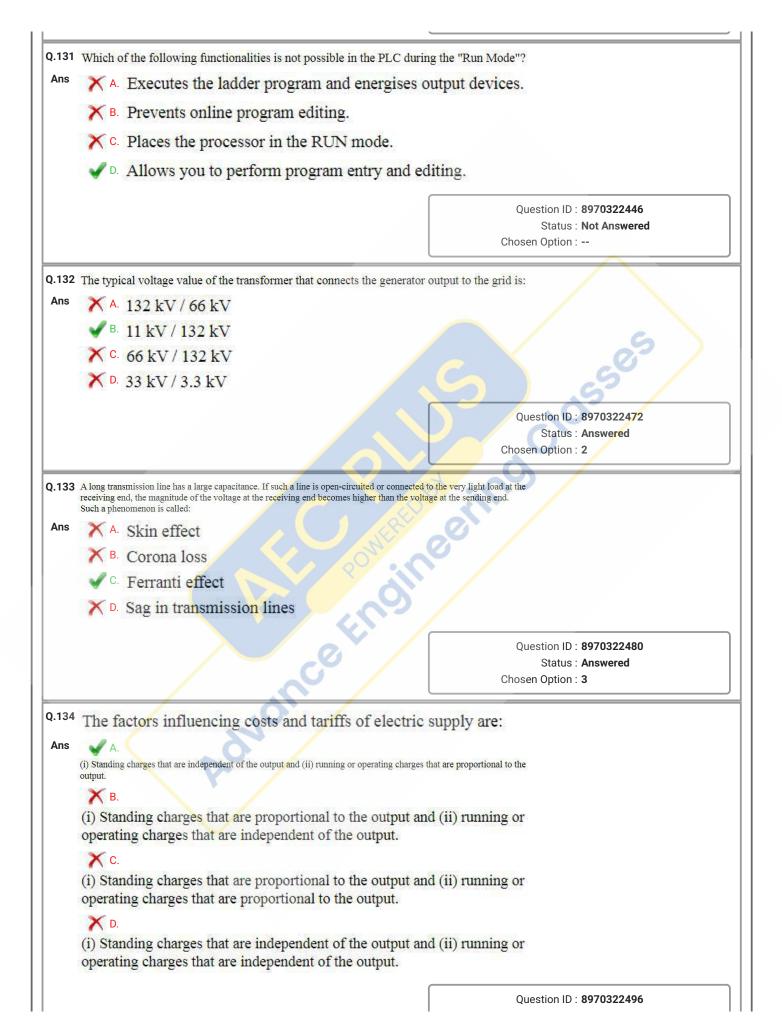
The handling of liquid fuels is easier and they require less storage space.

- X c. The firing of liquid fuels can be easily controlled.
- ✓ D.

Liquid fuels leave very large quantity of ash after burning as compared to solid fuels.

Question ID: 8970322486

Status : Answered



Status: Answered

Chosen Option: 1

Q.135 Very low resistance, which is less than one ohm, could be measured using:

Ans

- A. Earth tester
- X B. Megger
- ✓ c. Kelvin's bridge
- X D. Wheatstone bridge

Question ID: 8970322543

Status : Answered
Chosen Option : 3

Q.136 Which of the following switches is used to detect the level of liquid within a tank?

Ans

- ✓ A. Float switch
- X B. Relay-based switch
- X c. Push-button switch
- X D. Electrical ON/OFF switch

Question ID : **8970322505**

Status : Answered

Chosen Option: 1

Q.137 Which of the following methods is NOT used to develop damping torque in the measuring instruments?

Ans

- X A. Eddy current
- ✓ B. Spring control
- X c. Fluid friction
- X D. Air friction

Question ID: 8970322542

Status: Answered

Chosen Option: 2

Q.138 The height for the light points and junction boxes from the floor level should be:

An

- X A. 3.0 m to 4.0 m
- ✓ B. 2.5 m to 3.0 m
- X c. 2.0 m to 3.5 m
- X D. 1.5 m to 2.5 m

Question ID: 8970322428

Status : Answered

Chosen Option: 4

Q.139 The Laplace transform of $u(t) = 1, t \ge 0$; u(t) = 0 for t < 0 is:

Ans

- X B. S
- $X \text{ C. } \frac{1}{(s+1)}$
- \times D. (s+1)

Question ID: 8970322509 Status: Answered

Chosen Option: 1

Q.140 Which of the following transmission systems has the maximum efficiency?

- Ans X A. Gear drive
 - X B. Belt drive
 - X c. Rope drive
 - ✓ D. Direct drive

Question ID: 8970322402 Status: Answered

Chosen Option: 4

Q.141 In an electric magnetic circuit, for establishing a magnetic field:

- X A. the movement of coil is required.

energy need not be spent, though energy is required to maintain it.

energy must be spent, though no energy is required to maintain it.

X D. energy is not at all required.

Question ID: 8970322463

Status: Answered

Chosen Option: 2

Q.142 In a dc motor, the commutator is used to:

Ans

convert dc current from armature conductor to ac current feedback to supply



convert ac current from armature conductor to dc current feedback to supply



convert dc current from supply to ac current in armature conductor



convert ac current from supply to dc current in armature conductor

Question ID: 8970322515 Status: Answered

Chosen Option: 3

Let L be the inductance of the system, C be the capacitance of the system, i be the instantaneous value of arc current, and v be the instantaneous value of capacitor voltage, which appears across the breaker when it opens. The prospective voltage or arc voltage is determined as:

Ans

$$\times$$
 A. $v = i/\sqrt{LC}$

$$\checkmark$$
 B. $v = i \sqrt{L/C}$

$$\times$$
 c. $v = i \sqrt{LC}$

$$\nu = \frac{i}{\sqrt{\underline{L}}}$$

Question ID: 8970322460 Status: Answered

Chosen Option : 2

Q.144 Identify the properties for neutral wire and earth wire from the given list.

- (i) It is connected to the neutral point of the transformer that is earthed at the substation.
- (ii) It is a solid earth at the substations
- (iii) Unbalanced current flows through it
- (iv) Only fault current flows through it

Ans

- X A Neutral wire: (i) and (iv); Earth wire: (ii) and (iii)
- X B. Neutral wire: (i), (iii) and (iv); Earth wire: (ii)
- ✓ c. Neutral wire: (i) and (iii); Earth wire: (ii) and (iv)
- Neutral wire: (i); Earth wire: (ii), (iii) and (iv)

Question ID: 8970322421

Status : Answered

Chosen Option : 4

Q.145 Calculate the distribution factor for a single layer 18 slots 2-pole three-phase stator winding.

Ans

Question ID : 8970322440

Status: Answered

Chosen Option: 4

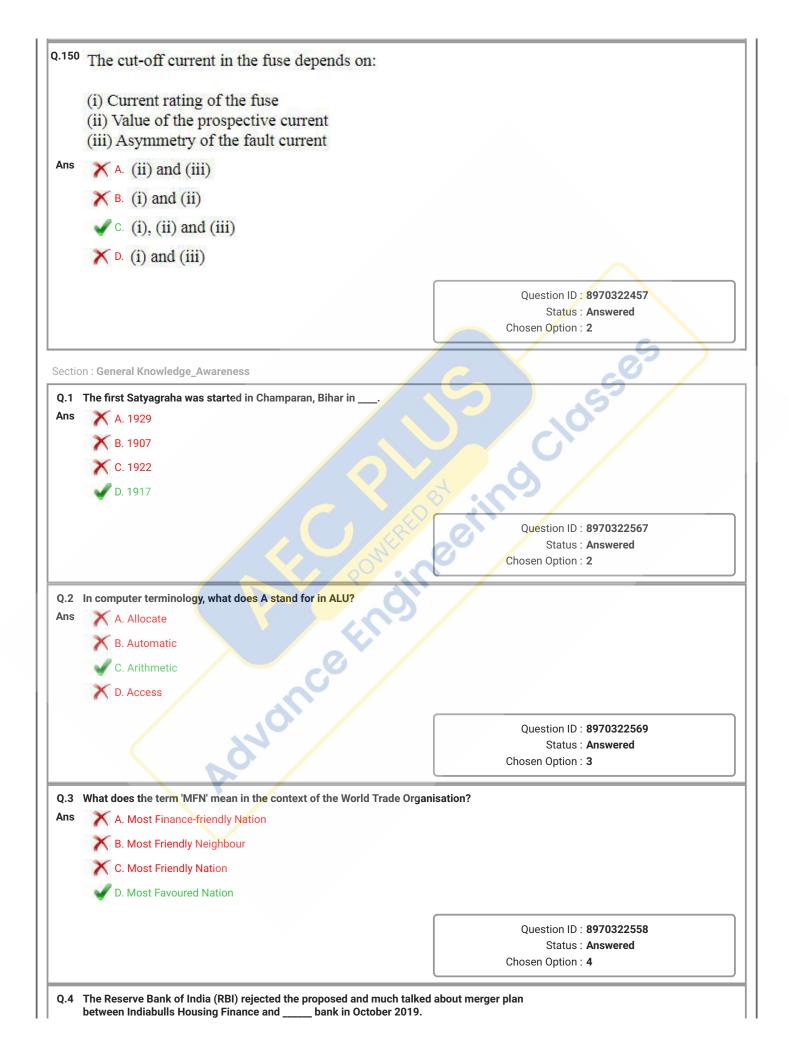
Q.146 The armature core in an electrical machine is made with the help of a/an:

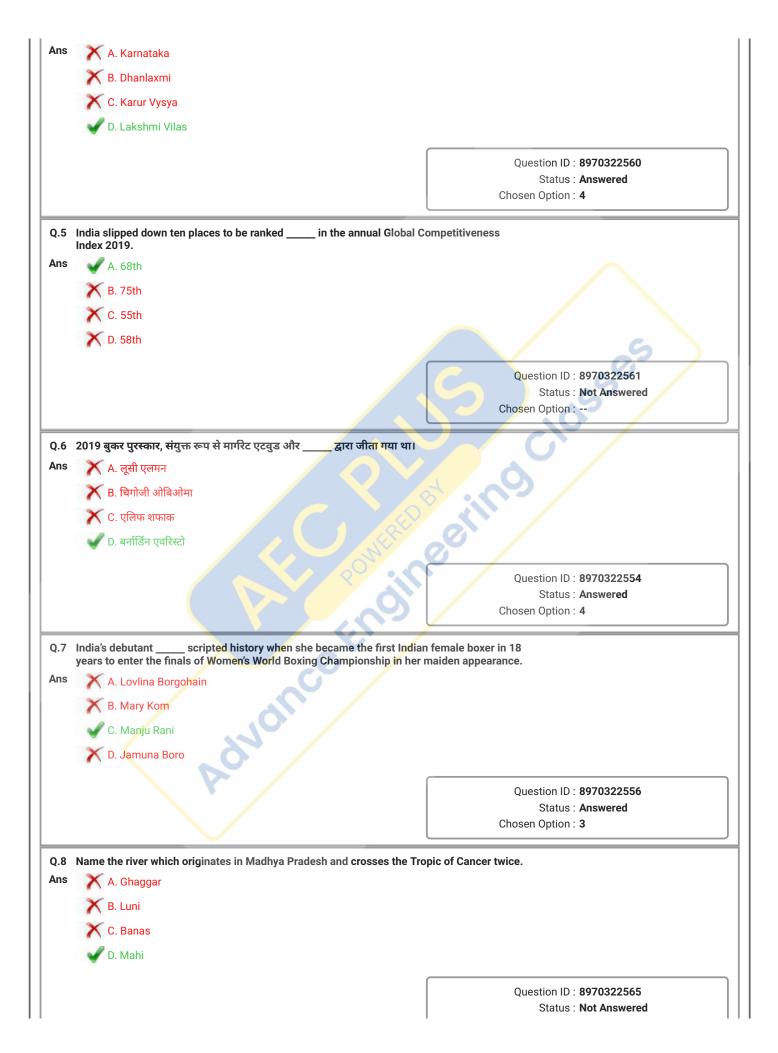
Ans

- ✓ A laminated electrically-conductive material
- X B. semiconductive material
- X c. electrically-conductive mono-solid material

Question ID: **8970322502** Status: **Not Answered**

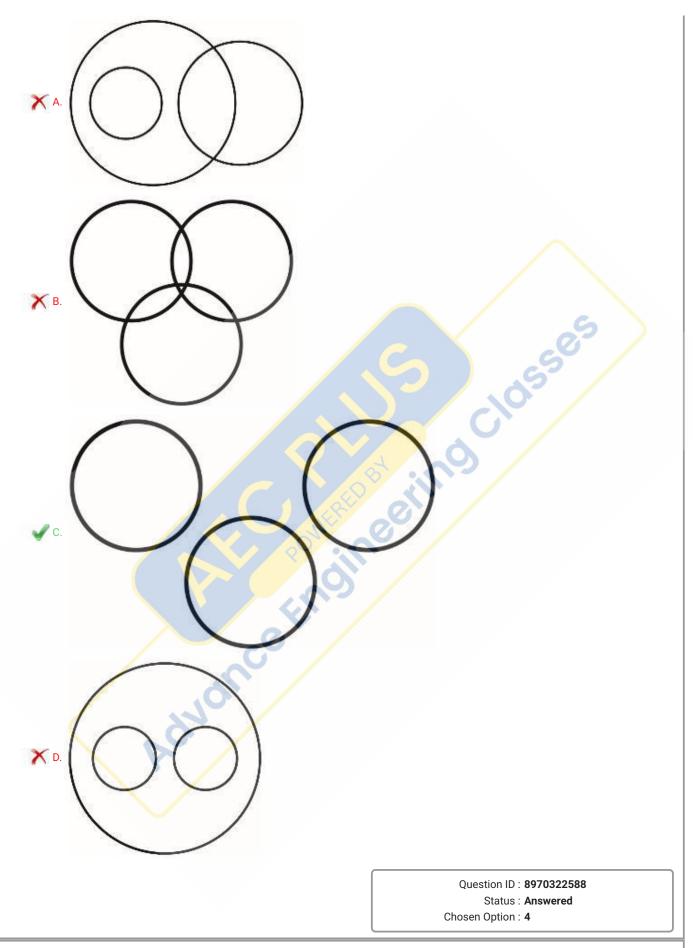
Chosen Option: --





position. As A Samprada Singh X. B. Uday Kotak X. C. Pallonji Mistry D. Gautam Adani Question ID: 8970322559 Status: Answered Chosen Option: 4 A Haryana A Haryana X. B. Punjab C. Rajasthan X. D. Allahabad Question ID: 8970322563 Spatus: Not Answered Chosen Option: Chosen Option: Chosen Option: Question ID: 8970322563 Spatus: Not Answered Chosen Option: Chosen Option: Chosen Option: Chosen Option: Chosen Option: Question ID: 8970322570 Status: Answered Chosen Option: 4 Chosen Option: 4 Chosen Option: Question ID: 8970322570 Status: Answered Chosen Option: 4 Chosen Option: 4 Chosen Option: Chosen Option: Chosen Option: A A global terrorism X. A. global terrorism X. B. global terrorism X. B. global terrorism X. G. global inequality D. global poverty Question ID: 8970322552 Status: Answered Chosen Option: 3 A Toctoric X. B. Volcanic			Chosen Option :					
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In A. Bengaluru A. B. Mumbai C. New Delhi D. Ahmedabad Question ID: 8970322555 Status: Answered Chosen Option: 3 Who was elected as the new president of Tunisia after a landslide victory in October 2019? A. Bejl Caid Essebai B. Kais Saied C. Nabil Karoui D. Zine El Abidine Ben All Question ID: 8970322551 Status: Answered Chosen Option: 4 Cution: Reasoning The Which of the following interchange of signs would make the equation correct? 15 + 5 + 16 × 3 - 10 = 41 X. A. + and - B. + and ÷ C. × and ÷ C. × and ÷ Couestion ID: 8970322580 Status: Answered Chosen Option: 2 Identify the Venn diagram that best represents the given item classes.			
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Status: Answered Chosen Option: 2 Identify the Venn diagram that best represents the given item classes.			Question ID : 9070222590
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identify the veint diagram that best represents the given item classes.	2		
Cun Plates Cookers		Identify the Venn diagram that best rep	presents the given item classes.





Question ID: 8970322584 Status: Not Answered

Chosen Option: --

Q.4 Given below is a question followed by two statements. Analyse and decide whether the question can be answered from the given statements.

Question: Who is Ram's father?

Statement I: Ram is brother of Sohan. Statement II: Manoj is father of Sohan's sister Anu.

Ans

X A. Statement I and II together are not sufficient

B. Statement I and II together are sufficient

C. Statement II alone is sufficient

X D. Statement I alone is sufficient

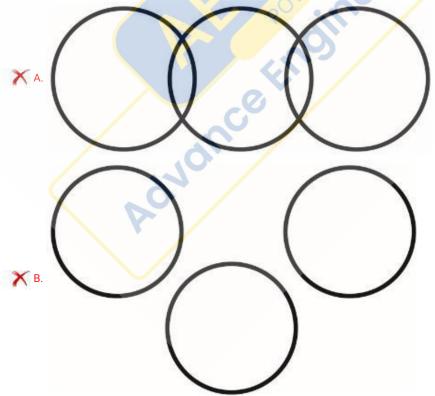
Question ID: 8970322574 Status: Answered

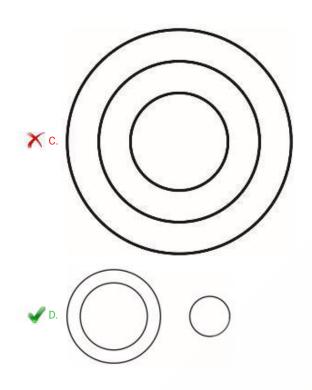
Chosen Option : 2

Q.5 Identify the Venn diagram that best represents the given item classes.









Question ID: 8970322590 Status: Answered Chosen Option: 3

Q.6 Given below is a question followed by two statements. Analyse and decide whether the question can be answered from the given statements.

Question: What is the age of Prince?

Statement I: Prince is younger than Ramesh. Statement II: Sohan is elder brother than Prince

Ans

X A. Statement II alone is sufficient

X B. Statement I and II together are sufficient

C. Statement I and II together are not sufficient

X D. Statement I alone is sufficient

Question ID : 8970322575 Status : Answered Chosen Option : 3

Q.7 In a certain code GARMENT is written as TNEMGAR. How will REPLACE be written in that code?

Ans

X A. ECALERP

X B. EACLREP

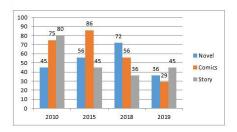
C. ECALREP

X D. ECALRPE

Question ID: 8970322583 Status: Answered

Chosen Option: 3

The bar graph given below shows the sales of books (in thousand number) from three branches of a publishing company during the years.



Which books selling is maximum over the years?

Ans

A. Comics

X B. Novel

X c. Comics and Novel both

X D. Story

Question ID: 8970322572

Status: Answered

Chosen Option: 1

Q.9 Study the following table and answer the questions based on it.
Production of different models of Mobile Phones of a Company (in Lakh) per annum over the given years.

	A	В	C	D
2004	45	75	40	70
2006	70	56	56	95
2008	78	82	79	65
2010	95	48	71	97

What is the average production (in lakh) of mobile phone 'C' over the given years?

Ans

X A. 63.6

X B. 49.9

X c. 78.3

✓ D. 61.5

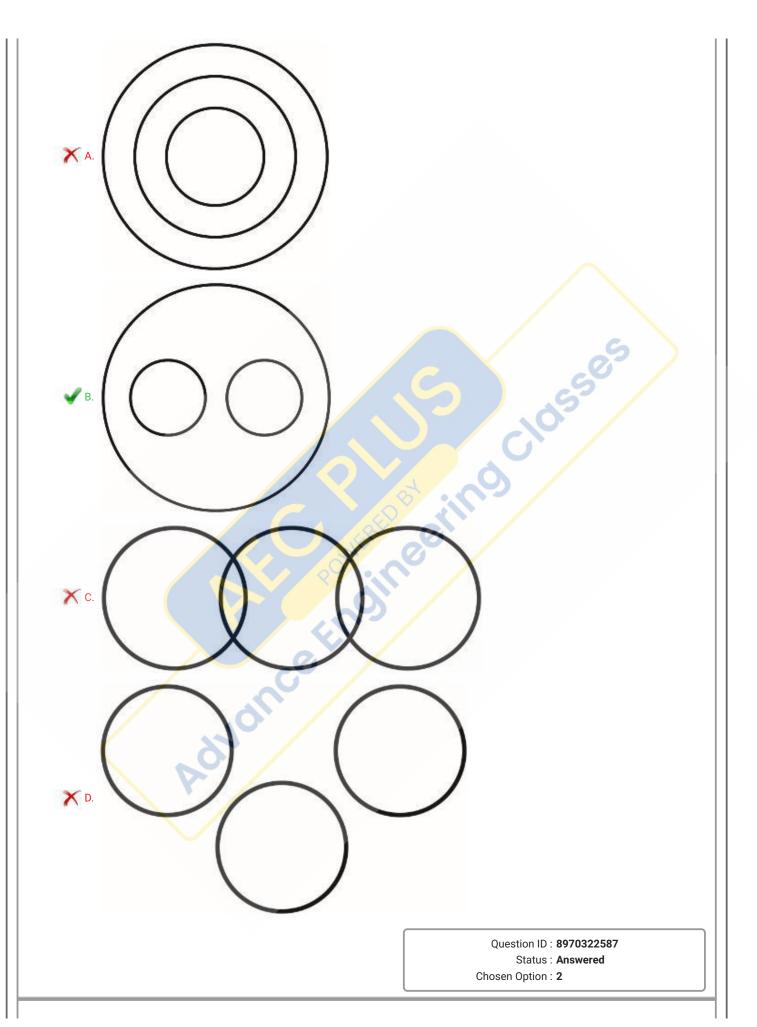
Question ID: 8970322573

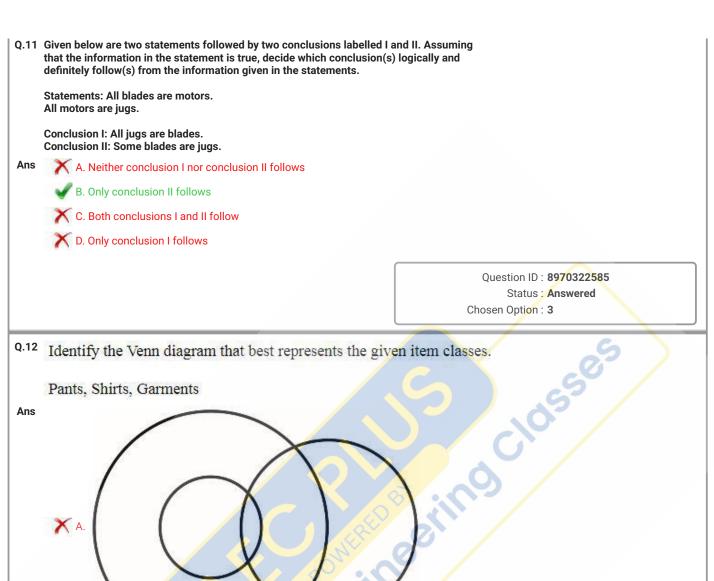
Status : **Answered** Chosen Option : **4**

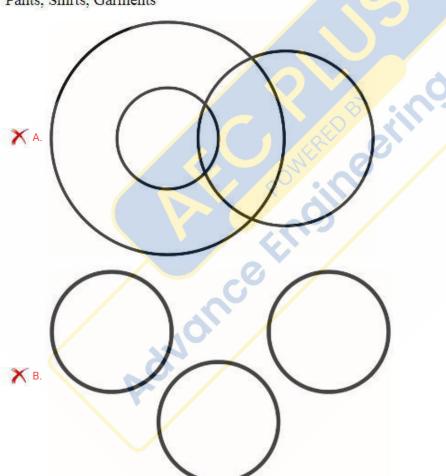
Q.10 Identify the Venn diagram that best represents the given item classes.

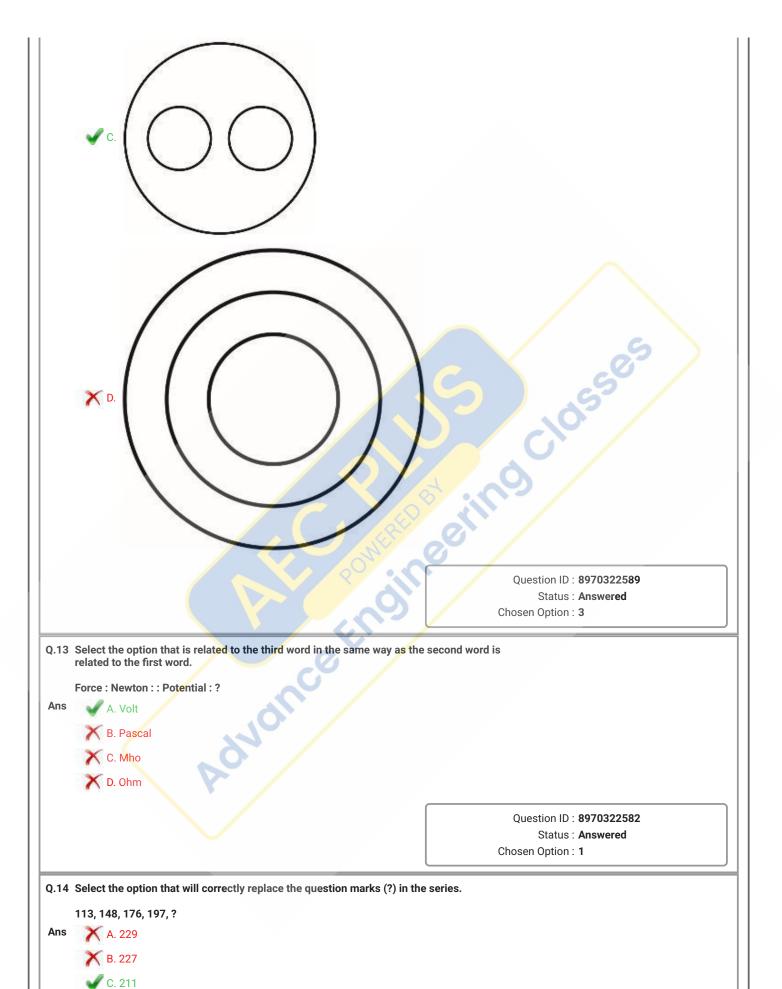
Cars, Vehicles, Motorcycles

Ans





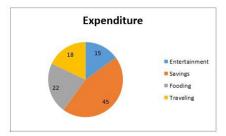




Question ID: 8970322579 Status: Answered

Chosen Option: 3

Q.15 The following pie-chart shows the percentage distribution of the expenditure of a person per month. Study the pie-chart and the answer the question based on it.



If the person earns ₹25000 per month, what is his savings?



Question ID: 8970322571

Status: Answered

Chosen Option: 2

Q.16 Select the option that will correctly replace the question marks (?) in the series.

37, 52, 74, 103, ?

Ans

Question ID: 8970322578

Status: Answered

Chosen Option: 1

Q.17 Select the option that is related to the third word in the same way as the second word is related to the first word.

Frog: Croak:: Monkey:?

A. Chirp



B. Beat



Question ID: 8970322581 Status: Answered

Chosen Option: 3

