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सतीश धवन अंतरिक्ष केंद्र शार, श्रीहरिकोटा

भारतीय अंतरिक्ष अनुसंधान संगठन
Indian Space Research Organisation



SATISH DHAWAN SPACE CENTRE SHAR Sriharikota

Participant ID	
Participant Name	
Test Center Name	
Test Date	14/02/2024
Test Time	4:00 PM - 5:30 PM
Subject	Technician B Electrician

Section : Curriculum Based

Q.1 What is the size in sq.mm of RABBIT conductor in ACSR Category?

- A. 100 sq.mm
- B. 80 sq.mm
- C. 50 sq.mm
- D. 148 sq.mm

Ans A. A
 B. B
 C. C
 D. D

Question ID : 4025574986

Option 1 ID : 40255719941

Option 2 ID : 40255719942

Option 3 ID : 40255719943

Option 4 ID : 40255719944

Status : Not Answered

Chosen Option : --

Q.2

If voltmeter is wrongly connected in series with a load, then ____ will result?

- A. The meter will burn out
- B. The meter reads normally voltage drop
- C. The meter will read the current drawn
- D. The load will not draw its current, and no reading in the meter

Ans A. A
 B. B
 C. C
 D. D

Question ID : 4025575017
Option 1 ID : 40255720065
Option 2 ID : 40255720066
Option 3 ID : 40255720067
Option 4 ID : 40255720068
Status : Answered
Chosen Option : A

Q.3

The main purpose of LED driver in a light fitting is to provide _____?

- A. Initially high AC Voltage
- B. Low Voltage AC
- C. Constant DC current
- D. Protection against short circuit

Ans A. A
 B. B
 C. C
 D. D

Question ID : 4025574969
Option 1 ID : 40255719873
Option 2 ID : 40255719874
Option 3 ID : 40255719875
Option 4 ID : 40255719876
Status : Not Answered
Chosen Option : --

Q.4

What does OFAF cooling index for transformer mean?

- A. Oil Forced Air Forced
- B. On Fan Always Fan
- C. SF6 And Fan Cooled
- D. Oil Forced Natural Air cooled

Ans A. A

B. B

C. C

D. D

Question ID : 4025574973

Option 1 ID : 40255719889

Option 2 ID : 40255719890

Option 3 ID : 40255719891

Option 4 ID : 40255719892

Status : Answered

Chosen Option : A

Q.5

The expansion of AAAC conductor is

- A. Additional Aluminium Alloy Conductor
- B. Aluminium Alloy copper Conductor
- C. Aluminium Conductor Steel reinforced
- D. All Aluminium Alloy Conductor

Ans A. A

B. B

C. C

D. D

Question ID : 4025574984

Option 1 ID : 40255719933

Option 2 ID : 40255719934

Option 3 ID : 40255719935

Option 4 ID : 40255719936

Status : Answered

Chosen Option : D

Q.6 The curve representing Ohm's law is

- A. a parabola
- B. a hyperbola
- C. linear
- D. sine function

Ans A. A
 B. B
 C. C
 D. D

Question ID : 4025575020
Option 1 ID : 40255720077
Option 2 ID : 40255720078
Option 3 ID : 40255720079
Option 4 ID : 40255720080
Status : Answered
Chosen Option : C

Q.7 Auto transformer is used as

- A. Control transformer
- B. Instrument transformer
- C. Isolation transformer
- D. Variable transformer

Ans A. A
 B. B
 C. C
 D. D

Question ID : 4025575031
Option 1 ID : 40255720121
Option 2 ID : 40255720122
Option 3 ID : 40255720123
Option 4 ID : 40255720124
Status : Answered
Chosen Option : D

Q.8 Load Factor is the ratio of _____ and _____.

- A. Maximum Load, Connected Load
- B. Maximum Load, Average Load
- C. Average Load, Maximum Load
- D. Connected Load, Maximum Load

Ans A. A
 B. B
 C. C
 D. D

Question ID : 4025574989

Option 1 ID : 40255719953

Option 2 ID : 40255719954

Option 3 ID : 40255719955

Option 4 ID : 40255719956

Status : Answered

Chosen Option : B

Q.9 The Voltmeter range can be extended by

- A. By connecting High resistance shunt with meter
- B. By connecting Low resistance shunt with meter
- C. By connecting High resistance in series with meter
- D. By connecting low resistance in series with meter

Ans A. A
 B. B
 C. C
 D. D

Question ID : 4025575012

Option 1 ID : 40255720045

Option 2 ID : 40255720046

Option 3 ID : 40255720047

Option 4 ID : 40255720048

Status : Answered

Chosen Option : B

Q.10

Unit of Measurement for Magnetic flux is _____?

- A. Weber
- B. Ampere turn
- C. Columb
- D. None of the above

Ans A. A
 B. B
 C. C
 D. D

Question ID : 4025575023
Option 1 ID : 40255720089
Option 2 ID : 40255720090
Option 3 ID : 40255720091
Option 4 ID : 40255720092
Status : Answered
Chosen Option : A

Q.11 Lumbert's Cosine law is related to _____ field?

- A. Electric motor
- B. Illumination
- C. Battery
- D. Power factor

Ans A. A
 B. B
 C. C
 D. D

Question ID : 4025574971
Option 1 ID : 40255719881
Option 2 ID : 40255719882
Option 3 ID : 40255719883
Option 4 ID : 40255719884
Status : Answered
Chosen Option : B

Q.12 The amount of heat required to raise the temperature of one kilogram of water through 1°C is described in.

- A. Calorie
- B. Joule
- C. Kilo Joule
- D. Kilo Calorie

Ans A. A
 B. B
 C. C
 D. D

Question ID : 4025575027
Option 1 ID : 40255720105
Option 2 ID : 40255720106
Option 3 ID : 40255720107
Option 4 ID : 40255720108
Status : Answered
Chosen Option : C

Q.13 An incandescent lamp is rated for 110 volts and having a resistance of 20 ohms. Find the resistance required to operate the lamp in 220 V.

- A. 10 ohms
- B. 2 ohms
- C. 20 ohms
- D. 200 ohms

Ans A. A
 B. B
 C. C
 D. D

Question ID : 4025575029
Option 1 ID : 40255720113
Option 2 ID : 40255720114
Option 3 ID : 40255720115
Option 4 ID : 40255720116
Status : Not Answered
Chosen Option : --

Q.14 A kitchen with electric appliances is operating on 230V,50Hz LT supply for 10 hours. The load comprises of lighting load of 2kW @0.9pf lagging on R-phase, heater load 1kW@UPF on Y-Phase and a 2kW Grinder @0.8pf lagging,4kW dish washer @0.95pf and 4kW freezer @0.85 pf. What is the energy consumption by the work shop?

- A. 130 units
- B. 100.9 units
- C. 13 units
- D. 65 units

Ans A. A
 B. B
 C. C
 D. D

Question ID : 4025575015
Option 1 ID : 40255720057
Option 2 ID : 40255720058
Option 3 ID : 40255720059
Option 4 ID : 40255720060
Status : Not Answered
Chosen Option : --

Q.15 Where the k rated transformers are specifically recommended based on the nature of the load?

- A. Heavy induction Motor
- B. Large Blower motors
- C. Electric furnace loads
- D. Harmonic generating loads

Ans A. A
 B. B
 C. C
 D. D

Question ID : 4025575040
Option 1 ID : 40255720157
Option 2 ID : 40255720158
Option 3 ID : 40255720159
Option 4 ID : 40255720160
Status : Not Answered
Chosen Option : --

Q.16 Which is having nearly zero temperature coefficient in the given below material?

- A. Iron
- B. Aluminum
- C. Copper
- D. Manganin

Ans A. A
 B. B
 C. C
 D. D

Question ID : 4025575018
Option 1 ID : 40255720069
Option 2 ID : 40255720070
Option 3 ID : 40255720071
Option 4 ID : 40255720072
Status : Answered
Chosen Option : C

Q.17 Which of the following magnetic materials has got least iron losses when used in AC machines?

- A. Laminated soft steel
- B. Cast aluminium
- C. Laminated Silicon Steel
- D. Thin sheet iron

Ans A. A
 B. B
 C. C
 D. D

Question ID : 4025574974
Option 1 ID : 40255719893
Option 2 ID : 40255719894
Option 3 ID : 40255719895
Option 4 ID : 40255719896
Status : Answered
Chosen Option : C

Q.18 Which drawing among the following is a must for preparing an electrical estimate for new house building?

- A. Civil foundation drawing
- B. Electrical layout and wiring diagram
- C. Electrical circuit and earthing diagram
- D. Power distribution diagram

Ans A. A
 B. B
 C. C
 D. D

Question ID : 4025575006
Option 1 ID : 40255720021
Option 2 ID : 40255720022
Option 3 ID : 40255720023
Option 4 ID : 40255720024
Status : Answered
Chosen Option : B

Q.19 What is the meaning of XLPE insulation?

- A. Cross leaked polymer ethylene
- B. Cross linked poly ethylene
- C. Cross linked poly propylene
- D. X-based large poly ethylene

Ans A. A
 B. B
 C. C
 D. D

Question ID : 4025575005
Option 1 ID : 40255720017
Option 2 ID : 40255720018
Option 3 ID : 40255720019
Option 4 ID : 40255720020
Status : Answered
Chosen Option : C

Q.20

The working principle of transformer

- A. Mutual inductance
- B. Self inductance
- C. Capacitance
- D. static

Ans A. A

B. B

C. C

D. D

Question ID : 4025575024

Option 1 ID : 40255720093

Option 2 ID : 40255720094

Option 3 ID : 40255720095

Option 4 ID : 40255720096

Status : Answered

Chosen Option : A

Q.21

An ideal transformer has maximum efficiency under the ____ condition?

- A. Copper losses are very minimum
- B. Copper losses are equal to iron loss
- C. Copper losses are equal to eddy current loss
- D. When load is 80% of transformer rating

Ans A. A

B. B

C. C

D. D

Question ID : 4025574975

Option 1 ID : 40255719897

Option 2 ID : 40255719898

Option 3 ID : 40255719899

Option 4 ID : 40255719900

Status : Not Answered

Chosen Option : --

Q.22

Standard resistor is made from.

- A. Platinum
- B. Manganin
- C. Silver
- D. Nichrome

Ans A. A
 B. B
 C. C
 D. D

Question ID : 4025575016
Option 1 ID : 40255720061
Option 2 ID : 40255720062
Option 3 ID : 40255720063
Option 4 ID : 40255720064
Status : Answered
Chosen Option : D

Q.23

A circuit that converts a pulsating output from a rectifier into a steady state DC level is known as ____?

- A. Inverter
- B. Stabilizer
- C. Regulator
- D. Filter

Ans A. A
 B. B
 C. C
 D. D

Question ID : 4025575039
Option 1 ID : 40255720153
Option 2 ID : 40255720154
Option 3 ID : 40255720155
Option 4 ID : 40255720156
Status : Not Attempted and Marked For Review
Chosen Option : --

Q.24

Efficiency of the power transformer is in the order of

- A) 50 %
- B) 75 %
- C) 98 %
- D) 60 %

Ans A. A
 B. B
 C. C
 D. D

Question ID : 4025574972
Option 1 ID : 40255719885
Option 2 ID : 40255719886
Option 3 ID : 40255719887
Option 4 ID : 40255719888
Status : Answered
Chosen Option : B

Q.25

Which of the following is true for SCR and TRIAC?

- A. Both SCR and TRIAC are bidirectional device
- B. SCR control both DC as well as AC
- C. SCR can be triggered by both positive and negative pulses
- D. TRIAC can be triggered by both positive and negative pulses

Ans A. A
 B. B
 C. C
 D. D

Question ID : 4025575011
Option 1 ID : 40255720041
Option 2 ID : 40255720042
Option 3 ID : 40255720043
Option 4 ID : 40255720044
Status : Not Answered
Chosen Option : --

Q.26 A silicon junction diode starts to conduct at a Potential difference of

- A. 0.7 V
- B. 0.3 V
- C. 1.0 V
- D. 0.1 V

Ans A. A

B. B

C. C

D. D

Question ID : 4025575025

Option 1 ID : 40255720097

Option 2 ID : 40255720098

Option 3 ID : 40255720099

Option 4 ID : 40255720100

Status : **Not Attempted and
Marked For Review**

Chosen Option : --

Q.27 Where NGR (Neutral Grounding Resistor) used?

- A. Transformer paralleling
- B. Lightning Protection circuit
- C. Alternator paralleling circuit
- D. High voltage power Generator Star point grounding

Ans A. A

B. B

C. C

D. D

Question ID : 4025574992

Option 1 ID : 40255719965

Option 2 ID : 40255719966

Option 3 ID : 40255719967

Option 4 ID : 40255719968

Status : **Not Answered**

Chosen Option : --

Q.28 If a 20 Kw,240V rated heater is connected on 120V supply, power drawn by it will be equal to _____

- A. 20 kW
- B. 40 kW
- C. 5 kW
- D. 10 kW

Ans A. A
 B. B
 C. C
 D. D

Question ID : 4025575026

Option 1 ID : 40255720101

Option 2 ID : 40255720102

Option 3 ID : 40255720103

Option 4 ID : 40255720104

Status : **Not Attempted and
Marked For Review**

Chosen Option : --

Q.29

BLDC motor indicates _____ type of motor?

- A. Brushless DC motor
- B. Brushless Direct coupled motor
- C. Bearing less Direct coupled Motor
- D. Balanced load DC Motor

Ans A. A
 B. B
 C. C
 D. D

Question ID : 4025575028

Option 1 ID : 40255720109

Option 2 ID : 40255720110

Option 3 ID : 40255720111

Option 4 ID : 40255720112

Status : **Not Attempted and
Marked For Review**

Chosen Option : --

Q.30

ELCB is used to protect the circuit from

- A) Over current
- B) Over voltage
- C) Leakage current
- D) Under voltage

Ans A. A
 B. B
 C. C
 D. D

Question ID : 4025575033
Option 1 ID : 40255720129
Option 2 ID : 40255720130
Option 3 ID : 40255720131
Option 4 ID : 40255720132
Status : Answered
Chosen Option : A

Q.31 The magnitude of EMF generated in a DC generator is mainly depend on _____?

- A. Commutation
- B. Quality of brush contact
- C. Speed of armature
- D. Type of winding

Ans A. A
 B. B
 C. C
 D. D

Question ID : 4025574988
Option 1 ID : 40255719949
Option 2 ID : 40255719950
Option 3 ID : 40255719951
Option 4 ID : 40255719952
Status : Answered
Chosen Option : A

Q.32 Which is the protection will first act for an induction motor with full load rated 24 Amps against 120 % overload

- A. 24 Amps Thermal overload relay
- B. 32 Amps MCB
- C. 40 Amps MCCB
- D. 32 Amps HRC fuse

Ans A. A
 B. B
 C. C
 D. D

Question ID : 4025574981
Option 1 ID : 40255719921
Option 2 ID : 40255719922
Option 3 ID : 40255719923
Option 4 ID : 40255719924
Status : Not Answered
Chosen Option : --

Q.33 In a 1.5 sq.mm multistrand copper wire used for house wiring will have _____ strands of conductors

- A. 18 strands of 0.3 mm dia
- B. 24 strands of 0.2 mm dia
- C. 22 strands of 0.3 mm dia
- D. 36 strands of 0.3 mm dia

Ans A. A
 B. B
 C. C
 D. D

Question ID : 4025574967
Option 1 ID : 40255719865
Option 2 ID : 40255719866
Option 3 ID : 40255719867
Option 4 ID : 40255719868
Status : Not Answered
Chosen Option : --

Q.34

The power factor of a process industry is generally low because of _____ reasons

- A. It has large number of LED lighting
- B. It has high capacity electric boiler
- C. It has large number of high capacity induction motors
- D. It has many computer-based systems

Ans A. A
 B. B
 C. C
 D. D

Question ID : 4025574987
Option 1 ID : 40255719945
Option 2 ID : 40255719946
Option 3 ID : 40255719947
Option 4 ID : 40255719948
Status : Not Answered
Chosen Option : --

Q.35 If the input of the small transformer is 20 VA what will be the output in VA when the efficiency is taken as 90 %?

- A. 18 VA
- B. 20 VA
- C. 22.2 VA
- D. 10 VA

Ans A. A
 B. B
 C. C
 D. D

Question ID : 4025574985
Option 1 ID : 40255719937
Option 2 ID : 40255719938
Option 3 ID : 40255719939
Option 4 ID : 40255719940
Status : Not Answered
Chosen Option : --

Q.36

What will be copper loss at Half load, if the full load copper loss is 800 watts.

- A. 200 W
- B. 400 W
- C. 100 W
- D. 800 W

Ans A. A

B. B

C. C

D. D

Question ID : 4025574997

Option 1 ID : 40255719985

Option 2 ID : 40255719986

Option 3 ID : 40255719987

Option 4 ID : 40255719988

Status : Answered

Chosen Option : A

Q.37

Two strips of X and Y of identical metal have the same length and thickness. If the width of X is half that of Y, the ratio of the resistance of X to that of Y will be

- A. 1: 4
- B. 4: 1
- C. 2: 1
- D. 1: 2

Ans A. A

B. B

C. C

D. D

Question ID : 4025575021

Option 1 ID : 40255720081

Option 2 ID : 40255720082

Option 3 ID : 40255720083

Option 4 ID : 40255720084

Status : Not Answered

Chosen Option : --

Q.38

A Diesel generating set gives out more white smoke while on Load. What it indicates?

- A. Normal working
- B. Fuel is not burnt fully in the engine stroke
- C. Over load on Alternator
- D. Less coolant in the Engine

Ans A. A
 B. B
 C. C
 D. D

Question ID : 4025575019

Option 1 ID : 40255720073

Option 2 ID : 40255720074

Option 3 ID : 40255720075

Option 4 ID : 40255720076

Status : **Not Attempted and
Marked For Review**

Chosen Option : --

Q.39 When a cable carrying 20 A, a drop of 1Volt occurs every 10 metres. Calculate voltage drop for 100 meters when carrying 10 A

- A. 20 V
- B. 10 V
- C. 5 V
- D. 100 V

Ans A. A
 B. B
 C. C
 D. D

Question ID : 4025575002

Option 1 ID : 40255720005

Option 2 ID : 40255720006

Option 3 ID : 40255720007

Option 4 ID : 40255720008

Status : **Not Answered**

Chosen Option : --

Q.40 Transposition of OH lines are done for long transmission lines for the purpose of ____?

- A. Equalize the L-E Inductance
- B. Equalize the L-E capacitance
- C. Equalise the Line resistance
- D. To maintain equal vector angle

Ans A. A
 B. B
 C. C
 D. D

Question ID : 4025575036
Option 1 ID : 40255720141
Option 2 ID : 40255720142
Option 3 ID : 40255720143
Option 4 ID : 40255720144
Status : Not Answered
Chosen Option : --

Q.41 If single phasing occurs while a 3-phase induction pump motor running with load ____ is the condition of the motor.

- A. Motor will continue to function normally
- B. Motor will work as single-phase motor
- C. Motor will continue to run but draws excess current and winding likely to burn
- D. Motor will stall with humming sound

Ans A. A
 B. B
 C. C
 D. D

Question ID : 4025574979
Option 1 ID : 40255719913
Option 2 ID : 40255719914
Option 3 ID : 40255719915
Option 4 ID : 40255719916
Status : Not Answered
Chosen Option : --

Q.42 Which of the following has highest temperature withstanding ability?

- A. XLPE insulation
- B. MICA insulation
- C. Fiber glass insulation
- D. Fire resistant PVC

Ans A. A
 B. B
 C. C
 D. D

Question ID : 4025575003
Option 1 ID : 40255720009
Option 2 ID : 40255720010
Option 3 ID : 40255720011
Option 4 ID : 40255720012
Status : Not Answered
Chosen Option : --

Q.43 When the induction motor is stationary, slip is ____ and when it is running, slip is ____.

- A. 1, small
- B. 0, large
- C. 0, small
- D. 1, large

Ans A. A
 B. B
 C. C
 D. D

Question ID : 4025574977
Option 1 ID : 40255719905
Option 2 ID : 40255719906
Option 3 ID : 40255719907
Option 4 ID : 40255719908
Status : Not Answered
Chosen Option : --

Q.44

For which of the following reasons all metal parts of electrical equipment are earthed?

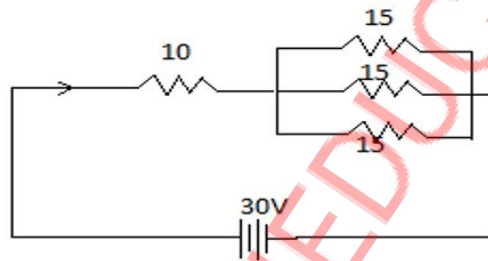
- A. Limit earth fault current
- B. Provide a path to return neutral current
- C. For equipment's safety
- D. Personal safety and Fault location identification

Ans A. A
 B. B
 C. C
 D. D

Question ID : 4025574996
Option 1 ID : 40255719981
Option 2 ID : 40255719982
Option 3 ID : 40255719983
Option 4 ID : 40255719984
Status : Answered
Chosen Option : B

Q.45 What is the value of the current flowing through the following circuit?

(All values of resistors are in ohms)



- A. 3 Amps
- B. 2 Amps
- C. 1 Amps
- D. 0.5 Amps

Ans A. A
 B. B
 C. C
 D. D

Question ID : 4025575037
Option 1 ID : 40255720145
Option 2 ID : 40255720146
Option 3 ID : 40255720147
Option 4 ID : 40255720148
Status : Answered
Chosen Option : B

Q.46

The air gap between stator and armature of an electric motor is kept as small as possible to

- A. Get stronger magnetic field
- B. Improve air circulation
- C. Reach the higher speed of rotation
- D. Make the rotation easier

Ans A. A

B. B

C. C

D. D

Question ID : 4025574980

Option 1 ID : 40255719917

Option 2 ID : 40255719918

Option 3 ID : 40255719919

Option 4 ID : 40255719920

Status : Not Answered

Chosen Option : --

Q.47

The ratio of " Total lumens utilized on working plane to Total lumens radiated by the lamp is called as _____?

- A. Depreciation factor
- B. Utilisation factor
- C. Efficacy
- D. Brightness

Ans A. A

B. B

C. C

D. D

Question ID : 4025574970

Option 1 ID : 40255719877

Option 2 ID : 40255719878

Option 3 ID : 40255719879

Option 4 ID : 40255719880

Status : Not Answered

Chosen Option : --

Q.48 For which of the following reasons Earthing is done in electrical system?

- A. Provide a common reference point
- B. Provide a path to earth fault current, leakage and stray currents
- C. Personal safety
- D. All the above

Ans A. A
 B. B
 C. C
 D. D

Question ID : 4025575000
Option 1 ID : 40255719997
Option 2 ID : 40255719998
Option 3 ID : 40255719999
Option 4 ID : 40255720000
Status : Answered
Chosen Option : D

Q.49 A 2.2 k ohm resistor is identified by which colour band code

- A. Red, Red, Red and tolerance band
- B. Red, Red, Brown and tolerance band
- C. Red, Red, Yellow and tolerance band
- D. Red, Red, Black and tolerance band

Ans A. A
 B. B
 C. C
 D. D

Question ID : 4025574964
Option 1 ID : 40255719853
Option 2 ID : 40255719854
Option 3 ID : 40255719855
Option 4 ID : 40255719856
Status : Not Attempted and Marked For Review
Chosen Option : --

Q.50

The resistors R1 and R2 are connected in parallel. If the ratio of their value is $R1: R2 = 4: 1$ then their current will be in the ratio of

- A. 1: 4
- B. 4: 1
- C. 2: 1
- D. 1: 2

Ans A. A
 B. B
 C. C
 D. D

Question ID : 4025575008

Option 1 ID : 40255720029

Option 2 ID : 40255720030

Option 3 ID : 40255720031

Option 4 ID : 40255720032

Status : **Not Attempted and
Marked For Review**

Chosen Option : --

Q.51

Backup HRC fuse rating recommended for 50hp 3 phase 415V,66A motor with Y/D starter is ___?

- A. 80 A-100 A
- B. 32 A-63 A
- C. 160A-200A
- D. 200A-250A

Ans A. A
 B. B
 C. C
 D. D

Question ID : 4025575009

Option 1 ID : 40255720033

Option 2 ID : 40255720034

Option 3 ID : 40255720035

Option 4 ID : 40255720036

Status : **Not Answered**

Chosen Option : --

Q.52

The EMF equation of a DC Generator is _____ if N in rpm

- A. $\phi ZNP / 120 A$
- B. $\phi ZNA / 60P$
- C. $\phi ZNP / 60 A$
- D. $\phi ZNP / 60 A$

Ans A. A
 B. B
 C. C
 D. D

Question ID : 4025574990

Option 1 ID : 40255719957

Option 2 ID : 40255719958

Option 3 ID : 40255719959

Option 4 ID : 40255719960

Status : Answered

Chosen Option : D

Q.53

What is the phase shift of LV w.r.t HV in the vector group Dy1 power transformer?

- A. 180 deg lag
- B. 30 deg lag
- C. 0 deg
- D. 30 deg lead

Ans A. A
 B. B
 C. C
 D. D

Question ID : 4025574976

Option 1 ID : 40255719901

Option 2 ID : 40255719902

Option 3 ID : 40255719903

Option 4 ID : 40255719904

Status : Not Answered

Chosen Option : --

Q.54 The output power of electrical motor is taken from?

- A. The poles
- B. Armature
- C. Conductors
- D. Shaft

Ans A. A
 B. B
 C. C
 D. D

Question ID : 4025574978
Option 1 ID : 40255719909
Option 2 ID : 40255719910
Option 3 ID : 40255719911
Option 4 ID : 40255719912
Status : Not Answered
Chosen Option : --

Q.55 Equivalent terminology in Magnet Circuit for an Electric Circuit with Current in Amperes

- A. MMF in Ampere Turns
- B. Flux in weber
- C. Reluctivity
- D. None of the above

Ans A. A
 B. B
 C. C
 D. D

Question ID : 4025574966
Option 1 ID : 40255719861
Option 2 ID : 40255719862
Option 3 ID : 40255719863
Option 4 ID : 40255719864
Status : Not Answered
Chosen Option : --

Q.56 A regulator is used in ceiling fan circuit to

- A. decrease the current
- B. drop the voltage applied to the fan
- C. increase the speed
- D. increase the torque

Ans A. A
 B. B
 C. C
 D. D

Question ID : 4025575004
Option 1 ID : 40255720013
Option 2 ID : 40255720014
Option 3 ID : 40255720015
Option 4 ID : 40255720016
Status : Answered
Chosen Option : B

Q.57 Which of the following is an integrating type of device?

- A. Ammeter
- B. Voltmeter
- C. Energy meter
- D. Watt meter

Ans A. A
 B. B
 C. C
 D. D

Question ID : 4025575014
Option 1 ID : 40255720053
Option 2 ID : 40255720054
Option 3 ID : 40255720055
Option 4 ID : 40255720056
Status : Not Attempted and
Marked For Review
Chosen Option : --

Q.58

Minimum ground clearance as per IE for a 33 KV Over Head un-insulated transmission line along the road is _____

- A. 4.0 M
- B. 4.6 M
- C. 5.2 M
- D. 6.1 M

Ans A. A
 B. B
 C. C
 D. D

Question ID : 4025575030

Option 1 ID : 40255720117

Option 2 ID : 40255720118

Option 3 ID : 40255720119

Option 4 ID : 40255720120

Status : **Not Attempted and Marked For Review**

Chosen Option : --

Q.59 Iron cores are laminated to

- A. Reduce humming noise
- B. Reduce copper Loss
- C. Reduce Eddy current Loss
- D. Reduce Hysteresis Loss

Ans A. A
 B. B
 C. C
 D. D

Question ID : 4025574965

Option 1 ID : 40255719857

Option 2 ID : 40255719858

Option 3 ID : 40255719859

Option 4 ID : 40255719860

Status : **Answered**

Chosen Option : C

Q.60

What type of earthing system is generally adopted in India?

- A. I-T
- B. TNS
- C. T-T
- D. Plate earthing

Ans A. A
 B. B
 C. C
 D. D

Question ID : 4025575001
Option 1 ID : 40255720001
Option 2 ID : 40255720002
Option 3 ID : 40255720003
Option 4 ID : 40255720004
Status : Answered
Chosen Option : D

Q.61

Megger is used to measure

- A) Earth resistance
- B) Insulation resistance
- C) Breakdown voltage of insulation
- D) Thermal resistance

Ans A. A
 B. B
 C. C
 D. D

Question ID : 4025575013
Option 1 ID : 40255720049
Option 2 ID : 40255720050
Option 3 ID : 40255720051
Option 4 ID : 40255720052
Status : Answered
Chosen Option : B

Q.62

Which colour wire is recommended for earthing conductor as per Indian standard?

- A. Red
- B. Black
- C. Green
- D. Grey

Ans A. A
 B. B
 C. C
 D. D

Question ID : 4025574995

Option 1 ID : 40255719977

Option 2 ID : 40255719978

Option 3 ID : 40255719979

Option 4 ID : 40255719980

Status : Answered

Chosen Option : C

Q.63 When _____ is connected in series with one of the two tubes connected in parallel, it minimises the stroboscopic effect.

- A. Capacitor
- B. Choke
- C. Starter
- D. Resistor

Ans A. A
 B. B
 C. C
 D. D

Question ID : 4025574962

Option 1 ID : 40255719845

Option 2 ID : 40255719846

Option 3 ID : 40255719847

Option 4 ID : 40255719848

Status : Not Attempted and
Marked For Review

Chosen Option : --

Q.64 What is the relative resistivity of aluminium compared to copper if copper resistivity is one?

- A. 0.94
- B. 4.4
- C. 1.6
- D. 2.8

Ans A. A
 B. B
 C. C
 D. D

Question ID : 4025575032

Option 1 ID : 40255720125

Option 2 ID : 40255720126

Option 3 ID : 40255720127

Option 4 ID : 40255720128

Status : **Not Attempted and
Marked For Review**

Chosen Option : --

Q.65 The most appropriate method to put off Electrical fire specifically is by using _____ type
Extinguisher

- A. Class A
- B. Class B
- C. Class C
- D. Class D

Ans A. A
 B. B
 C. C
 D. D

Question ID : 4025574998

Option 1 ID : 40255719989

Option 2 ID : 40255719990

Option 3 ID : 40255719991

Option 4 ID : 40255719992

Status : **Answered**

Chosen Option : C

Q.66 Residual magnetism property is used _____ machines to initiate EMF generation?

- A. Stepper motor
- B. Squirrel cage Induction motor
- C. Self-excited alternator
- D. Servo controlled stabiliser

Ans A. A
 B. B
 C. C
 D. D

Question ID : 4025574994
Option 1 ID : 40255719973
Option 2 ID : 40255719974
Option 3 ID : 40255719975
Option 4 ID : 40255719976
Status : Answered
Chosen Option : C

Q.67 Which Instrument cannot be used in AC Supply?

- A. Induction type meter
- B. Moving iron meter
- C. Electrodynamic moving meters
- D. Permanent magnet moving coil instrument

Ans A. A
 B. B
 C. C
 D. D

Question ID : 4025575034
Option 1 ID : 40255720133
Option 2 ID : 40255720134
Option 3 ID : 40255720135
Option 4 ID : 40255720136
Status : Answered
Chosen Option : D

Q.68 When a cable carrying 20 A, a drop of 1 Volt occurs every 10 metres. Calculate Voltage drop for 100 metres when carrying 30 A.

- A. 25 V
- B. 15 V
- C. 10 V
- D. 1 V

Ans A. A
 B. B
 C. C
 D. D

Question ID : 4025575007

Option 1 ID : 40255720025

Option 2 ID : 40255720026

Option 3 ID : 40255720027

Option 4 ID : 40255720028

Status : **Not Attempted and Marked For Review**

Chosen Option : --

Q.69 According to Flemings Right Hand Rule, the Thumb finger indicates _____ ?

- A. Direction of Field
- B. Direction of Motion of conductor
- C. Direction of Induced EMF
- D. Direction of current Flow

Ans A. A
 B. B
 C. C
 D. D

Question ID : 4025574963

Option 1 ID : 40255719849

Option 2 ID : 40255719850

Option 3 ID : 40255719851

Option 4 ID : 40255719852

Status : **Answered**

Chosen Option : D

Q.70

Which of the following water pumps does not need priming?

- A. Reciprocating pump
- B. Centrifugal pump
- C. Jet pump
- D. Multi stage pump

Ans A. A

B. B

C. C

D. D

Question ID : 4025575022

Option 1 ID : 40255720085

Option 2 ID : 40255720086

Option 3 ID : 40255720087

Option 4 ID : 40255720088

Status : **Not Attempted and Marked For Review**

Chosen Option : --

Q.71 In order to get high starting torque _____ method is recommended with slip ring induction motor?

- A. Add series resistance to stator winding
- B. Add series resistance to rotor winding always
- C. Add series resistance to rotor winding during starting
- D. Add resistance in parallel to rotor winding during starting

Ans A. A

B. B

C. C

D. D

Question ID : 4025575038

Option 1 ID : 40255720149

Option 2 ID : 40255720150

Option 3 ID : 40255720151

Option 4 ID : 40255720152

Status : **Not Answered**

Chosen Option : --

Q.72

What is the rotor current frequency when the slip is 1.5% for a 4 pole 50 Hz, 3 phase squirrel cage induction motor?

- A. 50 Hz
- B. 75Hz
- C. 0.75 Hz
- D. 1.5 Hz

Ans A. A
 B. B
 C. C
 D. D

Question ID : 4025574982

Option 1 ID : 40255719925

Option 2 ID : 40255719926

Option 3 ID : 40255719927

Option 4 ID : 40255719928

Status : Not Answered

Chosen Option : --

Q.73

A Ceiling fan is wound for 12 poles and connected to rated 230V,50Hz AC supply. What is the approximate rpm when the regulator is selected 50%?

- A. 1000 rpm
- B. 500 rpm
- C. 250 rpm
- D. 480 rpm

Ans A. A
 B. B
 C. C
 D. D

Question ID : 4025574983

Option 1 ID : 40255719929

Option 2 ID : 40255719930

Option 3 ID : 40255719931

Option 4 ID : 40255719932

Status : Not Answered

Chosen Option : --

Q.74 The purpose of providing dummy coils in a generator is ___?

- A. To reduce eddy current losses
- B. To provide mechanical balance for the rotor
- C. To enhance flux density
- D. To amplify voltage

Ans A. A
 B. B
 C. C
 D. D

Question ID : 4025574993

Option 1 ID : 40255719969

Option 2 ID : 40255719970

Option 3 ID : 40255719971

Option 4 ID : 40255719972

Status : **Not Attempted and
Marked For Review**

Chosen Option : --

Q.75 When the speed of a three phase alternator increases, the output at its terminals changes as following

- A. Sound increases
- B. Neutral voltage increases
- C. Line to line voltage increases
- D. Frequency increases

Ans A. A
 B. B
 C. C
 D. D

Question ID : 4025574991

Option 1 ID : 40255719961

Option 2 ID : 40255719962

Option 3 ID : 40255719963

Option 4 ID : 40255719964

Status : **Not Answered**

Chosen Option : --

Q.76

Efficiency of any lamp is expressed as

- A. Lumen / watt
- B. Lumens / lux
- C. Candela / watt
- D. Lux / watt

Ans A. A
 B. B
 C. C
 D. D

Question ID : 4025574968

Option 1 ID : 40255719869

Option 2 ID : 40255719870

Option 3 ID : 40255719871

Option 4 ID : 40255719872

Status : Answered

Chosen Option : A

Q.77

The following is true for overload relay

- A. It works on both magnetic and thermal effect
- B. Protects against short circuit
- C. It does not trip for currents up to 1.0 times of set current in OLR
- D. It works on magnetic effect only

Ans A. A
 B. B
 C. C
 D. D

Question ID : 4025575010

Option 1 ID : 40255720037

Option 2 ID : 40255720038

Option 3 ID : 40255720039

Option 4 ID : 40255720040

Status : Not Answered

Chosen Option : --

Q.78

Unit of reactive power is

- A. VA
- B. Watts
- C. VAr
- D. Ohms

Ans A. A
 B. B
 C. C
 D. D

Question ID : 4025574961

Option 1 ID : 40255719841

Option 2 ID : 40255719842

Option 3 ID : 40255719843

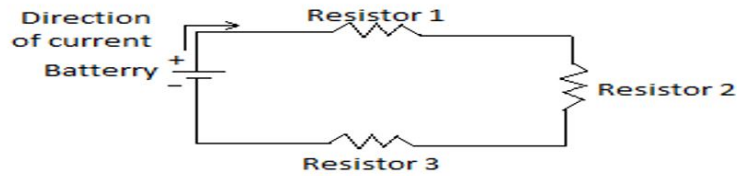
Option 4 ID : 40255719844

Status : Answered

Chosen Option : A

Q.79 Determine the magnitude of voltage in resistor marked 2,

If battery voltage = 24 V, voltage drop across resistor 1 = 8V, resistor 3 = 6 ohms and current through the circuit is 2 Amps



- A. 10 V
- B. 4 V
- C. 8 V
- D. 12 V

Ans A. A
 B. B
 C. C
 D. D

Question ID : 4025575035

Option 1 ID : 40255720137

Option 2 ID : 40255720138

Option 3 ID : 40255720139

Option 4 ID : 40255720140

Status : Not Attempted and Marked For Review

Chosen Option : --

Q.80 The standard size of an Earth plate as per Indian standard is _____ ?

- A. 300 mm X 300 mm
- B. 600 mm X 600 mm
- C. 1000 mm X 1000 mm
- D. Any suitable size

Ans A. A
 B. B
 C. C
 D. D

Question ID : 4025574999

Option 1 ID : 40255719993

Option 2 ID : 40255719994

Option 3 ID : 40255719995

Option 4 ID : 40255719996

Status : Answered

Chosen Option : B