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CHHATTISGARH STATE POWER HOLDING COMPANY LIMITED
(A Government of Chhattisgarh Undertaking)
CIN No. : U65992CT2008SGC020995
O/o GM (HR), C.S. Power Holding Co.Ltd., Raipur

Participant ID	
Participant Name	
Test Center Name	
Test Date	06/01/2022
Test Time	9:00 AM - 11:00 AM
Subject	Junior Engineer Trainee - Electrical

Section : **General Awareness & Reasoning**

Q.1 निम्नलिखित में से कौन सा एकबीजपत्री पौधे का उदाहरण नहीं है?

Ans
✗ 1. मक्का
✗ 2. गेहूं
✓ 3. चना
✗ 4. चावल

Question ID : **7532297591**
Status : **Answered**
Chosen Option : **3**

Q.2 _____ भारतीय उपमहाद्वीप का सार्वाधिक स्थिर भू-खंड है जिसमें मुख्यत: रूपांतरित चट्टानें हैं।

Ans
✗ 1. भारतीय रेगिस्तान
✓ 2. प्रायद्वीपीय पठार
✗ 3. हमालय पर्वत
✗ 4. प

Question ID : **7532297590**
Status : **Answered**
Chosen Option : **1**

Q.3 When did Mohandas Karamchand Gandhi return to his homeland after two decades of residence abroad?

Ans
✗ 1. 1919
✓ 2. 1915
✗ 3. 1921
✗ 4. 1913

Question ID : **7532297586**
Status : **Answered**
Chosen Option : **2**

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Q.4 **The famous British architect Edwin Lutyens is best known for designing:**

Ans
- ✗ 1. Victoria Memorial
- ✗ 2. Supreme Court building
- ✓ 3. India Gate
- ✗ 4. Gateway of India

Question ID : **7532297587**
Status : **Marked For Review**
Chosen Option : **2**

Q.5 **Who has become the first Indian woman to won the silver medal at the World wrestling championship at Oslo in 2021?**

Ans
- ✓ 1. Anshu Malik
- ✗ 2. Vinesh Phogat
- ✗ 3. Kavita Devi
- ✗ 4. Babita Kumari

Question ID : **7532297585**
Status : **Not Answered**
Chosen Option : **--**

Q.6 **As per Niti Aayog report 'Reforms in Urban Planning Capacity in India' report 2021, how much per cent of the total global urban population do Indian cities nearly have?**

Ans
- ✗ 1. 15%
- ✓ 2. 11%
- ✗ 3. 26%
- ✗ 4. 21%

Question ID : **7532297584**
Status : **Not Answered**
Chosen Option : **--**

Q.7 **After the merger of Banks in the year 2020, the number of public sector banks operating in India in the year 2021 are _____.**

Ans
- ✗ 1. 16
- ✓ 2. 12
- ✗ 3. 14
- ✗ 4. 10

Question ID : **7532297588**
Status : **Not Answered**
Chosen Option : **--**

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Q.8 Which of the following best defines depreciation in a business?

Ans
✗ 1. Gradual decrease in consumable stocks of the firm

✗ 2. Gradual loss in non-performing assets of a firm

✗ 3. Gradual loss in the production of the product stock of a firm

✓ 4. Gradual decrease in the economic value of the capital asset of a firm due to wear and tear or obsolescence

Question ID : **7532297589**
Status : **Not Answered**
Chosen Option : **--**

Q.9 The Citizenship Act, 1955, has been lastly amended in the year _____.

Ans
✗ 1. 2011

✗ 2. 2016

✓ 3. 2019

✗ 4. 2021

Question ID : **7532297593**
Status : **Answered**
Chosen Option : **3**

Q.10 Which of the following institutions has the power to issue a writ of 'Habeas corpus' in India?

(i)No court of law
(ii)Supreme court
(iii) High court
(iv)Lower court

Ans
✗ 1. Only ii, iii and iv

✓ 2. Both ii and iii

✗ 3. Only ii

✗ 4. Only i

Question ID : **7532297592**
Status : **Marked For Review**
Chosen Option : **3**

Q.11 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:
1) All books are notebooks.
2) Some notebooks are slates.

Conclusions:
I. Some books are slates.
II. No slate is a book.

Ans
✓ 1. Neither conclusion I nor II follows

✗ 2. Both conclusions I and II follow

✗ 3. Only conclusion I follows

✗ 4. Only conclusion II follows

Question ID : **7532297595**
Status : **Answered**
Chosen Option : **3**

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Q.12 Select the letter from among the given options that can replace the question mark (?) in the following series.

V, ?, M, G, Z

Ans
✗ 1. P
✓ 2. R
✗ 3. Q
✗ 4. S

Question ID : **7532297596**
Status : **Not Answered**
Chosen Option : **--**

Q.13 In a certain code language, DISTILER is written as RILTISED. How will INTERPOL be written in that language?

Ans
✗ 1. LOPRETNI
✗ 2. LONIPRTE
✗ 3. OLINRPTE
✓ 4. LNPERTOI

Question ID : **7532297597**
Status : **Not Attempted and Marked For Review**
Chosen Option : **--**

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

246, 239, ?, 226, 220, 213

Ans
✗ 1. 237
✗ 2. 235
✓ 3. 233
✗ 4. 231

Question ID : **7532297602**
Status : **Answered**
Chosen Option : **3**

Q.15 What will be the approximate value of the following expression?

$223.09 - 142.96 \div 13.07 = ?$

Ans
✗ 1. 211
✗ 2. 215
✓ 3. 212
✗ 4. 214

Question ID : **7532297603**
Status : **Answered**
Chosen Option : **3**

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Q.16 'Ring' is related to 'Finger' in the same way as 'Armlet' is related to '_____'.

Ans

✗ 1. Lower arm

✓ 2. Upper arm

✗ 3. Waist

✗ 4. Forehead

Question ID : **7532297600**
Status : **Not Answered**
Chosen Option : **--**

Q.17 यदि "A $ B" का अर्थ है A, B का पुत्र है; "A % B" का अर्थ है A, B की मां है; "A & B" का अर्थ है A, B का भाई है; तो T & Z % K $ P में T का P से क्या संबंध है?

Ans

✗ 1. चचेरा भाई

✓ 2. साला

✗ 3. दामाद

✗ 4. भतीजा

Question ID : **7532297599**
Status : **Answered**
Chosen Option : **2**

Q.18 Five girls (A, B, C, D and E) are sitting on a bench facing south. A is sitting in the middle of the bench and second to the left of B. If C is fourth from the right end of the bench and not sitting adjacent to D, then what is the sitting position of E?

Ans

✗ 1. To the immediate left of D

✗ 2. Exactly between A and B

✓ 3. Extreme left of the bench

✗ 4. Extreme right of the bench

Question ID : **7532297594**
Status : **Answered**
Chosen Option : **3**

Q.19 Hritik went 4 km straight towards the north and turned right. After covering a distance of 3 km, he again turned right and covered a distance of 2 km. Finally, he turned right again and stopped after travelling 1 km. In which direction is he from the starting point?

Ans

✓ 1. North-east

✗ 2. South

✗ 3. South-east

✗ 4. North-west

Question ID : **7532297598**
Status : **Answered**
Chosen Option : **1**

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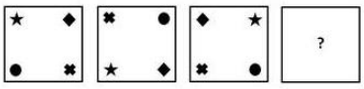
Q.20 Select the figure from among the given options that can replace the question mark (?) in the following series.



Ans

✔ 1.

✘ 2.

✘ 3.

✘ 4.

Question ID : **7532297601**
Status : **Answered**
Chosen Option : **1**

Section : **Subject Content**

Q.1 An 8085 microprocessor has _____ address lines.

Ans
✔ 1. 16
✘ 2. 8
✘ 3. 4
✘ 4. 2

Question ID : **7532297664**
Status : **Answered**
Chosen Option : **1**

Q.2 The resistance of an earthing electrode should be:

Ans
✘ 1. 1k
✘ 2. infinite
✘ 3. 100k
✔ 4. very low

Question ID : **7532297632**
Status : **Answered**
Chosen Option : **4**

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Q.3 Insulation resistance is measured by:

Ans
1. an ammeter
2. an ohmmeter
3. meggar
4. a voltmeter

Question ID : **7532297673**
Status : **Answered**
Chosen Option : **3**

Q.4 ROM stands for:

Ans
1. Write Only Memory
2. Random Only Memory
3. Read Only Memory
4. Programmable Read Only Memory

Question ID : **7532297648**
Status : **Answered**
Chosen Option : **3**

Q.5 The maximum load that can be connected in a power sub circuit as per IE rules is:

Ans
1. 1000W
2. 3000W
3. 800W
4. 1500W

Question ID : **7532297612**
Status : **Answered**
Chosen Option : **3**

Q.6 A full adder adds:

Ans
1. 2 bits
2. 3 bits
3. 4 bits
4. 8 bits

Question ID : **7532297645**
Status : **Answered**
Chosen Option : **2**

Q.7 In 4 hours, a 100W, 250 V bulb will consume:

Ans
1. 400Wh
2. 250Wh
3. 25kWh
4. 100Wh

Question ID : **7532297622**
Status : **Answered**
Chosen Option : **1**

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Q.8 **The secondary of a current transformer:**

Ans
✔ 1. is never left open circuited
✘ 2. is never left short circuited
✘ 3. can be kept open or short circuited
✘ 4. can be kept open circuited

Question ID : **7532297680**
Status : **Answered**
Chosen Option : **1**

Q.9 What is the main purpose of SF_6 gas in SF_6 CB?

Ans
✘ 1. Providing cooling
✘ 2. Providing lubrication
✘ 3. Providing insulation
✔ 4. Arc quenching

Question ID : **7532297675**
Status : **Answered**
Chosen Option : **4**

Q.10 **A resistance of 3 ohms and a reactance of 4 ohms is connected in a circuit.The power factor of the circuit will be:**

Ans
✘ 1. 0.5
✔ 2. 0.6
✘ 3. 0.75
✘ 4. 0.85

Question ID : **7532297614**
Status : **Answered**
Chosen Option : **2**

Q.11 **LVDT core is made of:**

Ans
✘ 1. copper
✔ 2. soft iron
✘ 3. brass
✘ 4. aluminium

Question ID : **7532297668**
Status : **Answered**
Chosen Option : **2**

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Q.12 **3 resistances, each of value R ohm, are connected in delta. The equivalent star will have each resistance of value:**

Ans
- ✗ 1. R/√3 ohm
- ✗ 2. R ohm
- ✗ 3. 3R ohm
- ✓ 4. R/3 ohm

Question ID : **7532297623**
Status : **Answered**
Chosen Option : **4**

Q.13 **Which of the following is a pentavalent impurity?**

Ans
- ✗ 1. Boron
- ✓ 2. Phosphorous
- ✗ 3. Indium
- ✗ 4. Aluminium

Question ID : **7532297615**
Status : **Answered**
Chosen Option : **2**

Q.14 **If in a conductor, more current flows on the surface in comparison to its core, then this effect is called:**

Ans
- ✗ 1. corona
- ✗ 2. the Ferranti effect
- ✓ 3. the skin effect
- ✗ 4. Lenz's effect

Question ID : **7532297654**
Status : **Answered**
Chosen Option : **3**

Q.15 **The function of steel wire in ACSR conductors is to:**

Ans
- ✓ 1. provide additional mechanical strength
- ✗ 2. compensate for the skin effect
- ✗ 3. compensate for corona
- ✗ 4. provide extra inductance

Question ID : **7532297656**
Status : **Answered**
Chosen Option : **1**

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Q.16 _____ instruments directly show the instantaneous value of the electrical quantity at the time when it is being measured.

Ans
✔ 1. Indicating
✘ 2. Recording
✘ 3. Integrating
✘ 4. Absolute

Question ID : **7532297630**
Status : **Answered**
Chosen Option : **1**

Q.17 The root mean square value of an alternating current given by i = 100Sin314t is:

Ans
✔ 1. 100/√2
✘ 2. 100
✘ 3. 314
✘ 4. 200/π

Question ID : **7532297604**
Status : **Answered**
Chosen Option : **1**

Q.18 An oscillator needs an amplifier with:

Ans
✘ 1. LC tank circuit
✘ 2. Only negative feedback
✔ 3. Only positive feedback
✘ 4. negative or positive feedback

Question ID : **7532297618**
Status : **Answered**
Chosen Option : **3**

Q.19 A Zener diode is generally used for:

Ans
✘ 1. Amplification
✘ 2. Oscillation
✔ 3. Stabilization
✘ 4. Rectification

Question ID : **7532297620**
Status : **Answered**
Chosen Option : **3**

Q.20 In a power system, 3-phase, 4 wire system is normally used for:

Ans
✘ 1. primary distribution
✔ 2. secondary distribution
✘ 3. primary transmission
✘ 4. secondary transmission

Question ID : **7532297653**
Status : **Answered**
Chosen Option : **2**

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Q.21 The capacitor in a capacitor start induction motor is placed in:

Ans
✗ 1. series with either running or starting winding
✗ 2. series with both running and starting winding
✗ 3. series with running winding
✓ 4. series with starting winding

Question ID : **7532297659**
Status : **Answered**
Chosen Option : **4**

Q.22 Short circuit test in a transformer is performed to find the:

Ans
✓ 1. copper loss
✗ 2. eddy current loss
✗ 3. hysteresis loss
✗ 4. iron loss

Question ID : **7532297635**
Status : **Answered**
Chosen Option : **1**

Q.23 If the poles in a lap wound generator are doubled, then the generated EMF will:

Ans
✗ 1. become half
✗ 2. become four times
✗ 3. become double
✓ 4. remain the same

Question ID : **7532297640**
Status : **Answered**
Chosen Option : **4**

Q.24 For unloaded transmission line, if the receiving end voltage is higher than the sending end voltage, then this condition is called:

Ans
✗ 1. the Seebeck effect
✗ 2. the switching effect
✓ 3. the Ferranti effect
✗ 4. the Raman effect

Question ID : **7532297651**
Status : **Answered**
Chosen Option : **3**

Q.25 In Boolean algebra A.(B+C) = _____.

Ans
✓ 1. A.B+A.C
✗ 2. A+(B.C)
✗ 3. A.B+C
✗ 4. (A+B).(A+C)

Question ID : **7532297646**
Status : **Answered**
Chosen Option : **1**

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Q.26 The electrical circuit used to get smooth DC output from a rectified circuit is called:

Ans
1. an oscillator
2. an amplifier
3. a transistor
4. a filter

Question ID : **7532297616**
Status : **Answered**
Chosen Option : **4**

Q.27 The direction of rotation of a DC motor is given by:

Ans
1. Fleming's right-hand rule
2. Faraday's law
3. Fleming's left-hand rule
4. Lenz's law

Question ID : **7532297639**
Status : **Answered**
Chosen Option : **3**

Q.28 With the increase of temperature, the resistance of metals will:

Ans
1. first decrease and then increase
2. increase
3. decrease
4. remain the same

Question ID : **7532297606**
Status : **Answered**
Chosen Option : **2**

Q.29 Merz price system is used for the protection of:

Ans
1. transformers only
2. transformers and transmission lines
3. transformers and alternators
4. alternators only

Question ID : **7532297674**
Status : **Answered**
Chosen Option : **1**

Q.30 The range of an ammeter can be extended by using:

Ans
1. a shunt
2. a pointer
3. a control spring
4. a multiplier

Question ID : **7532297628**
Status : **Answered**
Chosen Option : **1**

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Q.31 The time base signal in a CRO is:

Ans
✗ 1. a square wave signal
✗ 2. a sinusoidal signal
✓ 3. a sawtooth signal
✗ 4. a triangular wave signal

Question ID : **7532297681**
Status : **Answered**
Chosen Option : **3**

Q.32 Maximum power transferred to the load is given by:

Ans
✗ 1. $\frac{V^2}{R_{th}}$
✗ 2. $\frac{3V^2}{R_{th}}$
✗ 3. $\frac{2V^2}{3R_{th}}$
✓ 4. $\frac{V^2}{4R_{th}}$

Question ID : **7532297624**
Status : **Answered**
Chosen Option : **4**

Q.33 _____ is an active transducer.

Ans
✗ 1. Strain gauge
✓ 2. Thermocouple
✗ 3. Capacitor pressure gauge
✗ 4. LVDT

Question ID : **7532297667**
Status : **Answered**
Chosen Option : **2**

Q.34 Materials that store electrical energy are classified as:

Ans
✗ 1. insulating
✗ 2. magnetic
✓ 3. dielectric
✗ 4. semiconductor

Question ID : **7532297609**
Status : **Answered**
Chosen Option : **3**

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Q.35 Which of the following is reduced by laminating the core of a transformer?

Ans
1. Copper loss
2. Mechanical loss
3. Eddy current loss
4. Hysteresis loss

Question ID : **7532297634**
Status : **Answered**
Chosen Option : **3**

Q.36 Which of the following plants has the minimum running cost?

Ans
1. Diesel power plant
2. Nuclear power plant
3. Hydro power plant
4. Steam power plant

Question ID : **7532297650**
Status : **Answered**
Chosen Option : **3**

Q.37 In an alternator at zero power factor lagging, the armature reaction:

Ans
1. does not affect
2. is wholly magnetising
3. is wholly demagnetising
4. is cross magnetising

Question ID : **7532297658**
Status : **Answered**
Chosen Option : **3**

Q.38 Electrical energy is measured in:

Ans
1. kVA
2. kWh
3. W
4. kW

Question ID : **7532297621**
Status : **Answered**
Chosen Option : **2**

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Q.39 The maximum value of voltage unbalance which has been agreed between Indian Railways and supply authorities is:

Ans
- ✗ 1. 5% voltage unbalance continuously
- ✗ 2. 7% voltage unbalance continuously
- ✓ 3. 2% voltage unbalance continuously
- ✗ 4. 4% voltage unbalance continuously

Question ID : **7532297671**
Status : **Not Attempted and Marked For Review**
Chosen Option : **--**

Q.40 The practical value of α in a transistor is about:

Ans
- ✗ 1. 50 to 100
- ✗ 2. 100 to 200
- ✓ 3. 0.85 to 0.99
- ✗ 4. 0.1 to 0.5

Question ID : **7532297619**
Status : **Answered**
Chosen Option : **3**

Q.41 The resistance of an ammeter as compared to a voltmeter is:

Ans
- ✗ 1. very high
- ✓ 2. very low
- ✗ 3. Double
- ✗ 4. Equal

Question ID : **7532297631**
Status : **Answered**
Chosen Option : **2**

Q.42 If 3 capacitors, each of capacitance C are connected in series, then the equivalent capacitance will be:

Ans
- ✗ 1. C
- ✗ 2. 9C
- ✗ 3. 3C
- ✓ 4. C/3

Question ID : **7532297613**
Status : **Answered**
Chosen Option : **4**

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Q.43 The function of inverters is to convert:

Ans
✔ 1. DC into AC
✘ 2. AC into AC
✘ 3. DC into DC
✘ 4. AC into DC

Question ID : **7532297665**
Status : **Answered**
Chosen Option : **1**

Q.44 A chopper is connected from a source terminal voltage of 220 V. The load voltage is a rectangular pulse of 1ms duration, over the total time period of 5ms. What will be the average value of the load voltage?

Ans
✘ 1. 220 V
✘ 2. 440 V
✘ 3. 22 V
✔ 4. 44 V

Question ID : **7532297666**
Status : **Answered**
Chosen Option : **4**

Q.45 Candela is the unit of:

Ans
✘ 1. frequency
✔ 2. luminous intensity
✘ 3. solid angle
✘ 4. luminous flux

Question ID : **7532297682**
Status : **Answered**
Chosen Option : **2**

Q.46 The number of turns on the primary of a current transformer is:

Ans
✔ 1. less than secondary
✘ 2. equal to secondary
✘ 3. more than secondary
✘ 4. less than or more than secondary

Question ID : **7532297679**
Status : **Answered**
Chosen Option : **1**

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Q.47 In DC shunt motor field, winding consists of:

Ans
✔ 1. many turns of thin wire
✘ 2. many turns of thick wire
✘ 3. few turns of thin wire
✘ 4. few turns of thick wire

Question ID : **7532297638**
Status : **Answered**
Chosen Option : **1**

Q.48 A 250 V lamp has a total flux of 3000 lumens.What will be its mean spherical candle power?

Ans
✘ 1. 480
✔ 2. 240
✘ 3. 120
✘ 4. 12

Question ID : **7532297683**
Status : **Answered**
Chosen Option : **2**

Q.49 A single winding transformer is called:

Ans
✘ 1. a distribution transformer
✘ 2. a welding transformer
✘ 3. a power transformer
✔ 4. an auto transformer

Question ID : **7532297636**
Status : **Answered**
Chosen Option : **4**

Q.50 A 4 pole DC generator has 400 wave winding connected conductors. The flux per pole is 0.01Wb. If the generated voltage is 200 volts, then the speed of the generator will be:

Ans
✘ 1. 150 rpm
✔ 2. 1500 rpm
✘ 3. 750 rpm
✘ 4. 3000 rpm

Question ID : **7532297641**
Status : **Answered**
Chosen Option : **2**

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Q.51 If the rotor resistance in an induction motor is decreased, then maximum torque will occur at:

Ans
✔ 1. higher speed
✘ 2. the same speed
✘ 3. lower speed
✘ 4. the synchronous speed

Question ID : **7532297662**
Status : **Answered**
Chosen Option : **1**

Q.52 The device that converts BCD to seven segment is called:

Ans
✔ 1. a decoder
✘ 2. a demultiplexer
✘ 3. an encoder
✘ 4. a multiplexer

Question ID : **7532297644**
Status : **Answered**
Chosen Option : **1**

Q.53 2's complement of the binary number 11001 is:

Ans
✘ 1. 00110
✔ 2. 00111
✘ 3. 11001
✘ 4. 00101

Question ID : **7532297647**
Status : **Answered**
Chosen Option : **2**

Q.54 _____ in a hydro power plant is used to discharge surplus water on the downstream side of a dam.

Ans
✘ 1. Surge tank
✘ 2. Economizer
✘ 3. Penstock
✔ 4. Spillway

Question ID : **7532297649**
Status : **Answered**
Chosen Option : **4**

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Q.55 Which wiring system provides a long life to wiring?

Ans
✗ 1. Cab tyre sheath (CTS)/ Tough rubber sheath (TRS)
✓ 2. Conduit
✗ 3. Cleat
✗ 4. Metal sheathed

Question ID : **7532297611**
Status : **Answered**
Chosen Option : **2**

Q.56 Buchholz relay in a transformer is located in:

Ans
✗ 1. the drain valve
✗ 2. the conservator tank
✓ 3. the pipe between the transformer tank and conservator tank
✗ 4. the transformer tank

Question ID : **7532297637**
Status : **Answered**
Chosen Option : **4**

Q.57 What is the unit of relative permeability μ_r of a material?

Ans
✗ 1. Henry metre
✗ 2. Henry/metre
✗ 3. Weber/metre
✓ 4. No unit

Question ID : **7532297610**
Status : **Answered**
Chosen Option : **4**

Q.58 The function of a transformer is to:

Ans
✗ 1. change the level of DC voltage
✗ 2. change the frequency
✗ 3. increase or decrease power
✓ 4. change the level of AC voltage

Question ID : **7532297633**
Status : **Answered**
Chosen Option : **4**

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Q.59 In a 3 input NAND gate, the number of states where output is 1 equals:

Ans
✔ 1. 7
✘ 2. 8
✘ 3. 1
✘ 4. 0

Question ID : **7532297643**
Status : **Answered**
Chosen Option : **1**

Q.60 Capacitor switching can be done easily with:

Ans
✔ 1. a vacuum circuit breaker
✘ 2. an air circuit breaker
✘ 3. an oil circuit breaker
✘ 4. a water circuit breaker

Question ID : **7532297678**
Status : **Not Answered**
Chosen Option : **--**

Q.61 Which of the following options represents the swing equation?

Ans
✘ 1. $M\frac{d^2\delta}{dt^2} = -$ accelerating power
✘ 2. $M\frac{d^2\delta}{dt^2} =$ shaft power
✔ 3. $M\frac{d^2\delta}{dt^2} =$ accelerating power
✘ 4. $M\frac{d^2\delta}{dt^2} =$ electromagnetic power

Question ID : **7532297670**
Status : **Answered**
Chosen Option : **3**

Q.62 The pitch factor of an alternator is given by:

Ans
✔ 1. cosα/2
✘ 2. tanα
✘ 3. cosα
✘ 4. sinα/2

Question ID : **7532297663**
Status : **Answered**
Chosen Option : **1**

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Q.63 Deflecting torque in case of a PMMC instrument is proportional to:

Ans
✔ 1. I
✘ 2. $\sqrt{I}$
✘ 3. I^2
✘ 4. I^3

Question ID : **7532297629**
Status : **Answered**
Chosen Option : **1**

Q.64 In an induction motor, when slip is 1, the rotor speed N is

Ans
✘ 1. less than the synchronous speed
✔ 2. equal to zero
✘ 3. more than the synchronous speed
✘ 4. equal to the synchronous speed

Question ID : **7532297657**
Status : **Answered**
Chosen Option : **2**

Q.65 Damper winding in an alternator is employed in order to:

Ans
✘ 1. reduce eddy current losses
✘ 2. prevent armature reaction
✔ 3. prevent hunting
✘ 4. reduce core losses

Question ID : **7532297661**
Status : **Answered**
Chosen Option : **3**

Q.66 The purpose of backup relay is to:

Ans
✘ 1. increase the voltage
✔ 2. guard against failure of primary protection
✘ 3. increase the speed
✘ 4. leave no blind space

Question ID : **7532297677**
Status : **Answered**
Chosen Option : **2**

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Q.67 Binary number 1011 is equivalent to octal number:

Ans
✗ 1. 16
✗ 2. 15
✗ 3. 11
✓ 4. 13

Question ID : **7532297642**
Status : **Answered**
Chosen Option : **4**

Q.68 The instrument used to measure electric current is:

Ans
✗ 1. a wattmeter
✓ 2. an ammeter
✗ 3. a voltmeter
✗ 4. an energymeter

Question ID : **7532297669**
Status : **Answered**
Chosen Option : **2**

Q.69 If a pure inductor is connected to an AC source, then the current lags the voltage by:

Ans
✗ 1. zero degrees
✗ 2. 45 degrees
✗ 3. 180 degrees
✓ 4. 90 degrees

Question ID : **7532297626**
Status : **Answered**
Chosen Option : **4**

Q.70 The energy stored in an inductive coil is 2 joules. When a current of 0.2A is established in it, the self-inductance of the coil will be:

Ans
✓ 1. 100H
✗ 2. 50H
✗ 3. 75H
✗ 4. 200H

Question ID : **7532297607**
Status : **Answered**
Chosen Option : **1**

Q.71 The forbidden energy gap for germanium is:

Ans
✗ 1. 1.1 eV
✗ 2. 1.5 eV
✓ 3. 0.72 eV
✗ 4. 1.33 eV

Question ID : **7532297617**
Status : **Answered**
Chosen Option : **3**

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Q.72 The resonant frequency for a series R-L-C circuit is given by:

Ans

✗ 1. $LC = \omega^2$

✗ 2. $LC = 1/\omega$

✗ 3. $LC = \omega$

✓ 4. $LC = 1/\omega^2$

Question ID : **7532297605**
Status : **Answered**
Chosen Option : **4**

Q.73 Which of the following is classified as a symmetrical fault?

Ans

✗ 1. Line to ground fault

✓ 2. Three phase fault

✗ 3. Double line to ground fault

✗ 4. Line to line fault

Question ID : **7532297676**
Status : **Answered**
Chosen Option : **2**

Q.74 A 4 pole 60 Hz synchronous motor runs at:

Ans

✗ 1. 750 rpm

✗ 2. 1500 rpm

✓ 3. 1800 rpm

✗ 4. 3000 rpm

Question ID : **7532297660**
Status : **Answered**
Chosen Option : **3**

Q.75 Converters are required at each end of the transmission line for:

Ans

✗ 1. primary AC transmission

✗ 2. HVAC transmission

✗ 3. secondary AC transmission

✓ 4. HVDC transmission

Question ID : **7532297655**
Status : **Answered**
Chosen Option : **4**

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Q.76 The speed-time curve is the curve showing the instantaneous speed of a train in:

Ans
1. miles per hour
2. miles per day
3. kilometres per hour
4. kilometres per day

Question ID : **7532297672**
Status : **Answered**
Chosen Option : **3**

Q.77 Which of the following bridges is used to measure capacitance?

Ans
1. Schering bridge
2. Maxwell bridge
3. Wein bridge
4. Anderson bridge

Question ID : **7532297627**
Status : **Answered**
Chosen Option : **1**

Q.78 For measuring three-phase power by the two-wattmeters method, the two wattmeters will indicate the same reading but of opposite sign when the load power factor is:

Ans
1. 0.5
2. 0.8
3. unity
4. zero

Question ID : **7532297625**
Status : **Answered**
Chosen Option : **4**

Q.79 The maximum demand on a plant is 100 kW. If the load factor is 0.4, then the total energy generated in a year is:

Ans
1. 876000 kWh
2. 3504 kWh
3. 350400 kWh
4. 8760 kWh

Question ID : **7532297652**
Status : **Answered**
Chosen Option : **3**

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Q.80 The susceptibility of a diamagnetic substance is:

Ans

✗ 1. very large

✗ 2. Zero

✓ 3. negative and small

✗ 4. positive and small

Question ID : **7532297608**
Status : **Answered**
Chosen Option : **3**

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