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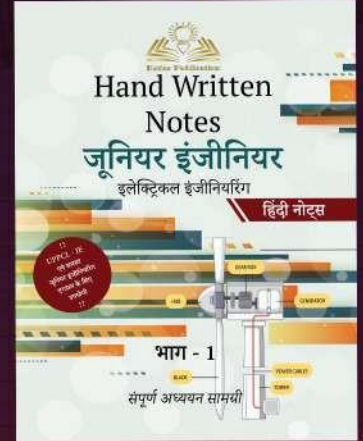
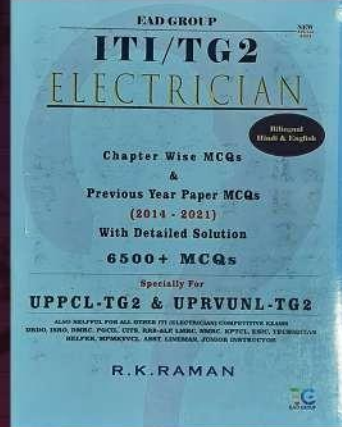
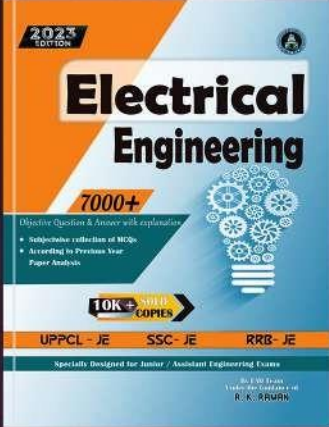
## Objective Book for

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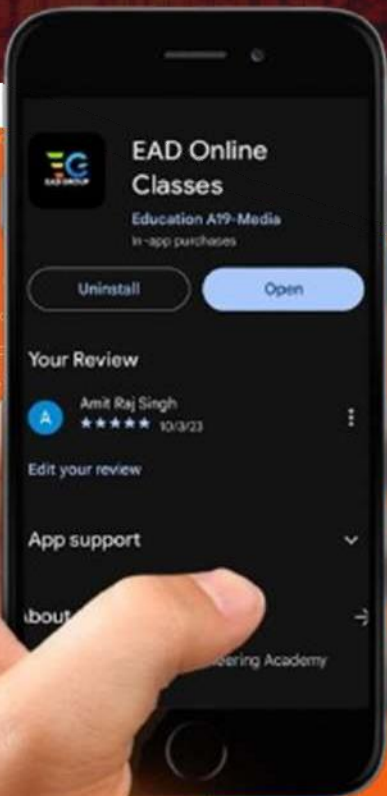
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## UTTAR PRADESH POWER CORPORATION LTD.

|                  |                                    |
|------------------|------------------------------------|
| Participant ID   |                                    |
| Participant Name |                                    |
| Test Center Name |                                    |
| Test Date        | 29/03/2022                         |
| Test Time        | 9:00 AM - 12:00 PM                 |
| Subject          | Junior Engineer Trainee Electrical |

### Section : Domain Knowledge

Q.1 An overcurrent relay having a current setting of 125% is connected to a supply circuit through a current transformer of ratio 400/10. The pick-up value will be:

- Ans
- A. 10 A
  - B. 6.25 A
  - C. 3.125 A
  - D. 12.5 A

Question ID : 75322911820

Status : Answered

Chosen Option : C

Q.2 Which of the following is NOT a valid advantage of cage rotor over wound rotor?

- Ans
- A. Low cost
  - B. Higher efficiency
  - C. Less maintenance
  - D. High starting torque

Question ID : 75322911874

Status : Answered

Chosen Option : D

Q.3 When a ball is dropped from a height, the correct sequence of energy transformation will be \_\_\_\_\_.

- Ans
- A.
  - B. potential energy → sound energy → kinetic energy
  - C. sound energy → kinetic energy → potential energy
  - D. kinetic energy → potential energy → sound energy

Question ID : 75322911889

Status : Answered

Chosen Option : A

Q.4 The Command window in MATLAB can be cleared using \_\_\_\_\_ command.

- Ans  A. Clr  
 B. Clc  
 C. Delete all  
 D. Clean all

Question ID : 75322911849

Status : Answered

Chosen Option : A

Q.5 The shape of the Normal Curve is \_\_\_\_\_ .

- Ans  A. triangular  
 B. circular  
 C. rectangular  
 D. bell shaped

Question ID : 75322911753

Status : Answered

Chosen Option : A

Q.6 निम्नलिखित में से कौन सा वेल्डेड जॉइंट (welded joints) के लिए एक अविनाशी (non-destructive, परीक्षण है?

- Ans  A. बंकन परीक्षण (Bending test)  
 B. एक्स-किरण परीक्षण (X-ray test)  
 C. तनन परीक्षण (Tensile test)  
 D. संघट्ट परीक्षण (Impact test)

Question ID : 75322911848

Status : Not Answered

Chosen Option : -

Q.7 Which of the following is INCORRECT for electronic soft starters?

- Ans  A. Low mechanical maintenance  
 B. Improved power factor  
 C. Higher maximum demand  
 D. Less mechanical stress

Question ID : 75322911867

Status : Not Answered

Chosen Option : -

Q.8 AutoCAD was developed by \_\_\_\_\_.

- Ans
- A. Adobe
  - B. Apple
  - C. Microsoft
  - D. Autodesk

Question ID : 75322911851

Status : Answered

Chosen Option : D

Q.9 यदि किसी डीसी (DC) मोटर में, पश्च ईएमएफ (emf) अचानक शून्य हो जाता है, तो \_\_\_\_\_।

- Ans
- A. मोटर विपरीत दिशा में चलेगी
  - B. मोटर की गति कम हो जाएगी और अंत में रुक जाएगी
  - C. आर्मेचर जल सकता है
  - D. मोटर अपेक्षाकृत निम्न गति से चलती रहेगी

Question ID : 75322911776

Status : Answered

Chosen Option : B

Q.10 Which of the following is NOT an operation step in PLC?

- Ans
- A. Output scan
  - B. Input scan
  - C. Program scan
  - D. Power supply scan

Question ID : 75322911822

Status : Answered

Chosen Option : D

Q.11 The step angle for a stepper motor is  $2^\circ$ . If the stepping frequency is 3600 pulses per second, then the shaft speed is \_\_\_\_\_.

- Ans
- A. 20 rps
  - B. 1800 rps
  - C. 200 rps
  - D. 3600 rps

Question ID : 75322911859

Status : Answered

Chosen Option : C



Q.12 In PLC, the amount of time that the entire program takes to execute is called \_\_\_\_\_ time.

- Ans
- A. rise
  - B. dead
  - C. scan
  - D. delay

Question ID : 75322911773

Status : Answered

Chosen Option : C

Q.13 The following symbol is used for:



- Ans
- A. wound rotor induction motor
  - B. autotransformer
  - C. squirrel cage induction motor
  - D. DC compound motor

Question ID : 75322911898

Status : Answered

Chosen Option : A

Q.14 The eddy current losses in a synchronous motor are 100 watts at 100 Hz. Find the frequency, if the losses are to be reduced to 25 W?

- Ans
- A. 200 Hz
  - B. 50 Hz
  - C. 400 Hz
  - D. 25 Hz

Question ID : 75322911875

Status : Answered

Chosen Option : C

Q.15 The Government passed the AIR Act in \_\_\_\_\_, to clean up our air by controlling pollution.

- Ans  A. 1954  
 B. 1981  
 C. 1974  
 D. 1986

Question ID : 75322911789

Status : Answered

Chosen Option : D

Q.16 Which of the following bridges CANNOT be used for inductance measurement?

- Ans  A. Owen's bridge  
 B. Kelvin's bridge  
 C. Anderson's bridge  
 D. Hay's bridge

Question ID : 75322911761

Status : Answered

Chosen Option : B

Q.17 The number of valence electrons in a Gallium atom is:

- Ans  A. five  
 B. two  
 C. three  
 D. four

Question ID : 75322911769

Status : Answered

Chosen Option : A

Q.18 Which of the following materials has the highest dielectric strength?

- Ans  A. Air  
 B. Oil  
 C. Alumina  
 D. Rubber

Question ID : 75322911866

Status : Answered

Chosen Option : C

Q.19 If the voltage applied to a load is  $100 \sin 500t$  and current through the load is  $10 \sin(500t + 60^\circ)$ , then the power consumed by the load is:

- Ans  A. 500 W  
 B. 1000 W  
 C. 750 W  
 D. 250 W

Question ID : 75322911760

Status : Answered

Chosen Option : C

Q.20 IPCC stands for:

- Ans
- A. Institute of Pollution and Climate Control
  - B. International Peace and Climate Committee
  - C. Intergovernmental Panel on Climate Change
  - D. International Pollution and Climate Committee

Question ID : 75322911786

Status : Answered

Chosen Option : D

Q.21 What will be the area under the curve  $y = x^2$  and the lines  $x = -2$ ,  $x = 1$  and x-axis?

- Ans
- A. 9 square units
  - B. 12 square units
  - C. 3 square units
  - D. 6 square units

Question ID : 75322911895

Status : Not Answered

Chosen Option : --

Q.22 The rotor resistance and reactance of a 4-pole, 50 Hz, 3-phase slip ring induction motor are  $0.4 \Omega$  and  $4 \Omega$  per phase, respectively. Calculate the speed at maximum torque.

- Ans
- A. 950 RPM
  - B. 1150 RPM
  - C. 1350 RPM
  - D. 1250 RPM

Question ID : 75322911829

Status : Not Attempted and Marked For Review

Chosen Option : --

Q.23 With reference to the synchronous motor, which of the following statements are true or FALSE?

1. The percentage slip is always zero.
2. The speed regulation is always zero.

- Ans
- A. 1 - False, 2 - False
  - B. 1 - False, 2 - True
  - C. 1 - True, 2 - False
  - D. 1 - True, 2 - True

Question ID : 75322911831

Status : Answered

Chosen Option : D

Q.24 Which of the following features is INCORRECT for stepper motor?

- Ans  A. Almost maintenance free  
 B. No feedback  
 C. Cost efficient  
 D. Highly complex circuitry

Question ID : 75322911774

Status : Answered

Chosen Option : B

Q.25 Brass is an alloy of:

- Ans  A. 40% copper and 60% zinc  
 B. 60% copper and 40% iron  
 C. 60% copper and 40% zinc  
 D. 40% copper and 60% iron

Question ID : 75322911764

Status : Answered

Chosen Option : C

Q.26 For transmission and distribution of electrical power, which of the following materials is preferred?

- Ans  A. Copper  
 B. Nichrome  
 C. Tungsten  
 D. Carbon

Question ID : 75322911844

Status : Answered

Chosen Option : A

Q.27 Ampere-Turns is a unit of \_\_\_\_ .

- Ans  A. reluctance  
 B. magnetomotive force  
 C. flux density  
 D. permeability

Question ID : 75322911767

Status : Answered

Chosen Option : C



Q.28 The sub-conductors of a bundled conductor are separated from each other by a distance of almost \_\_\_\_\_ or more.

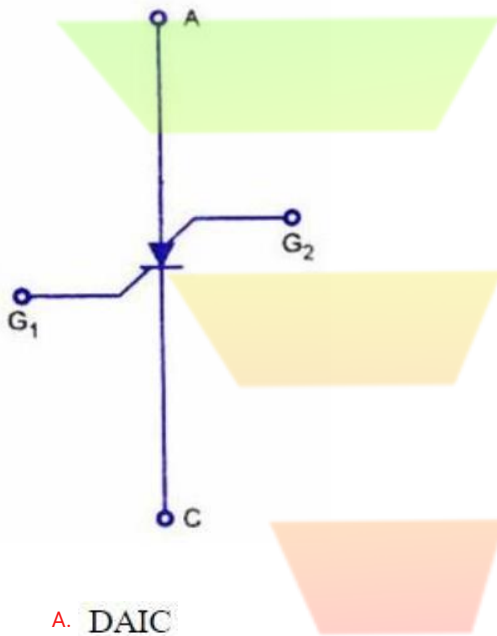
- Ans  A. 30 cm  
 B. 15 cm  
 C. 10 cm  
 D. 5 cm

Question ID : 75322911803

Status : Answered

Chosen Option : B

Q.29 The given symbol is used for:



- Ans  A. DAIC  
 B. SCR  
 C. SCS  
 D. TRIAC

Question ID : 75322911887

Status : Answered

Chosen Option : C

Q.30 The principle of the operation of the Merz price protection system is:

- Ans  A. voltage balance  
 B. size balance  
 C. power balance  
 D. current balance

Question ID : 75322911877

Status : Answered

Chosen Option : D

Q.31 The equation of the normal to the curves  $y = \sin x$  at  $(0, 0)$  is:

- Ans  A.  $x - y = 0$   
 B.  $x - y = 1$   
 C.  $x + y = 0$   
 D.  $x + y = 1$

Question ID : 75322911751  
Status : Not Answered  
Chosen Option : -

Q.32 \_\_\_\_\_ की लगभग सभी डीसी (DC) मशीनों के लिए इंटरपोल का उपयोग अत्यधिक आम है।

- Ans  A. 1 hp से अधिक  
 B. 0.5 hp से कम  
 C. 10 hp से अधिक  
 D. 0.25 hp से कम

Question ID : 75322911778  
Status : Answered  
Chosen Option : C

Q.33 The turn off time of an SCR is divided into two intervals, \_\_\_\_\_ time and \_\_\_\_\_ time.

- Ans  A. rise; delay  
 B. reverse recovery; spread  
 C. gate recovery; spread  
 D. reverse recovery; gate recovery

Question ID : 75322911790  
Status : Answered  
Chosen Option : D

Q.34 दो परस्पर संयोजित स्टेशनों के बीच अधिकतम विद्युत अंतरण होगा, यदि दोनों के बोल्टेजों के बीच का कोण \_\_\_\_\_ है।

- Ans  A.  $75^\circ$   
 B.  $30^\circ$   
 C.  $90^\circ$   
 D.  $180^\circ$

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Question ID : 75322911801  
Status : Answered  
Chosen Option : C

Q.35 Which day is declared as 'World Ozone Day'?

- Ans  A. 16 September  
 B. 5 June  
 C. 22 April  
 D. 28 September

Question ID : 75322911787

Status : Not Answered

Chosen Option : --

Q.36 A battery of 80 V with an internal resistance of  $2\ \Omega$  is to be charged from 200 V mains. Find the value of the series resistance for charging current of 5 A.

- Ans  A.  $24\ \Omega$   
 B.  $18\ \Omega$   
 C.  $20\ \Omega$   
 D.  $22\ \Omega$

Question ID : 75322911785

Status : Not Attempted and Marked For Review

Chosen Option : --

Q.37 निम्न में से कौन सी ग्रेपवाइन कम्यूनिकेशन की विधि नहीं है?

- Ans  A. स्टार चेन (Star chain)  
 B. नीति परिपत्र (Policy circulars)  
 C. क्लस्टर चेन (Cluster chain)  
 D. सिंगल चेन (Single chain)

Question ID : 75322911815

Status : Not Answered

Chosen Option : --

Q.38 Which of the following for HVDC transmission is INCORRECT?

- Ans  A. No skin effect  
 B. High corona loss  
 C. Good voltage regulation  
 D. Higher operating voltage

Question ID : 75322911806

Status : Answered

Chosen Option : B

Q.39 जब एक परावैद्युत को विद्युत क्षेत्र में रखा जाता है और विद्युत क्षेत्र में वृद्धि की जाती है, ऐसा करने से जब विद्युत क्षेत्र क्रान्तिक क्षेत्र से अधिक हो जाता है, तो परावैद्युत का विद्युतरोधन गुण समाप्त हो जाता है और वह चालक बन जाता है। इसे \_\_\_\_\_ कहा जाता है।

- Ans  A. परावैद्युत भंग (dielectric breakdown)  
 B. जेनर भंग (Zener breakdown)  
 C. अवालांचे भंग (avalanche breakdown)  
 D. व्युत्क्रम भंग (reverse breakdown)

Question ID : 75322911857

Status : Answered

Chosen Option : A

Q.40 What should be the minimum size of a GI earth electrode for 15 hp motor?

- Ans  A. 90 cm × 60 cm × 3 mm  
 B. 60 cm × 60 cm × 6 mm  
 C. 30 cm × 30 cm × 6 mm  
 D. 60 cm × 60 cm × 3 mm

Question ID : 75322911795

Status : Answered

Chosen Option : D

Q.41 Reluctance motor can be used in \_\_\_\_\_.

- Ans  A. electric timing devices  
 B. refrigerators  
 C. cranes  
 D. traction drives

Question ID : 75322911832

Status : Answered

Chosen Option : A

Q.42 A stepper motor has 8 stator teeth and 6 rotor teeth. Find the step angle.

- Ans  A. 15°  
 B. 7.5°  
 C. 1.5°  
 D. 30°

Question ID : 75322911775

Status : Answered

Chosen Option : B

Q.43 तेल से चलने वाले वाहनों द्वारा निम्नलिखित में से कौन सी गैस उत्सर्जित नहीं होती है?

- Ans  A. कार्बन डाइऑक्साइड  
 B. सल्फर डाइऑक्साइड  
 C. कार्बन मोनोआक्साइड  
 D. ऑक्सीजन

Question ID : 75322911860  
Status : Answered  
Chosen Option : D

Q.44 For mass production, the most suitable layout is \_\_\_\_\_ layout.

- Ans  A. process  
 B. fixed position  
 C. product  
 D. plant

Question ID : 75322911814  
Status : Not Answered  
Chosen Option : -

Q.45 Which type of wiring is mostly preferred for temporary installations?

- Ans  A. Conduit wiring  
 B. Lead-sheathed wiring  
 C. TRS wiring  
 D. Cleat wiring

Question ID : 75322911842  
Status : Answered  
Chosen Option : D

Q.46 The amount of copper used by a 3-wire distributor having the same maximum voltage to earth as compared to a 2-wire DC distributor is \_\_\_\_\_.

- Ans  A. 69.75%  
 B. 33.3%  
 C. 31.25%  
 D. 66.7%

Question ID : 75322911865  
Status : Answered  
Chosen Option : B



Q.47 Cost of fuel transportation is minimum in a \_\_\_\_\_ power plant and maximum in a \_\_\_\_\_ power plant.

- Ans  A. steam; hydroelectric  
 B. hydroelectric; steam  
 C. diesel; nuclear  
 D. steam; nuclear

Question ID : 75322911798  
Status : Answered  
Chosen Option : B

Q.48 To operate two alternators in parallel, the \_\_\_\_\_ must be matched for them.

- Ans  A. frequency  
 B. phase sequence  
 C. frequency, phase sequence and voltage  
 D. voltage

Question ID : 75322911873  
Status : Answered  
Chosen Option : C

Q.49 Which of the following starters is the most cost effective for an induction motor?

- Ans  A. Star-delta starter  
 B. Stator resistance starter  
 C. Auto-transformer starter  
 D. Slip ring motor starter

Question ID : 75322911879  
Status : Answered  
Chosen Option : A

Q.50 Which of the following is the most commonly used method of PLC programming?

- Ans  A. Sequential flow chart  
 B. Signal flow graph  
 C. Functional block diagram  
 D. Ladder diagram

Question ID : 75322911872  
Status : Answered  
Chosen Option : D

Q.51 Which of the following is NOT a characteristic of organisational development?

- Ans  A. It utilises systems thinking.  
 B. It is a long-term approach.  
 C. It is an unplanned change.  
 D. It is a dynamic process.

Question ID : 75322911868  
Status : Answered  
Chosen Option : C

Q.52 If  $A = [1 \ 0 \ 5]$  and  $B = [3 \ 0 \ 8]$ , find  $c = a * b$ .

- Ans  A. [3 0 40]  
 B. [2 0 3]  
 C. [4 0 13]  
 D. [5 0 24]

Question ID : 75322911850  
Status : Not Answered  
Chosen Option : --

Q.53 Which type of single-phase induction motor is also called two value capacitor motor?

- Ans  A. Shaded pole motor  
 B. Capacitor start motor  
 C. Permanent split capacitor motor  
 D. Capacitor start capacitor run motor

Question ID : 75322911827  
Status : Answered  
Chosen Option : D

Q.54 The Q-factor of an RLC circuit is 5 at its resonance frequency of 2 kHz. Find the bandwidth of the circuit.

- Ans  A. 10 kHz  
 B. 400 Hz  
 C. 1 kHz  
 D. 200 Hz

Question ID : 75322911763  
Status : Not Answered  
Chosen Option : --

Q.55 The density of  $SF_6$  gas is:

- Ans  A. one-fifth as compared to that of air.  
 B. one-third as compared to that of air  
 C. five times as compared to that of air  
 D. twice as compared to that of air

Question ID : 75322911871  
Status : Answered  
Chosen Option : D

Q.56 For an induction motor, which of the following starters is the cheapest?

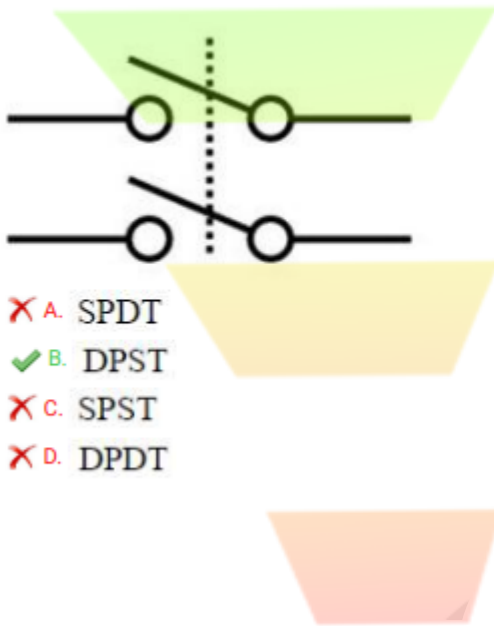
- Ans  A. Slip ring motor starter  
 B. Star-delta starter  
 C. Stator resistance starter  
 D. Autotransformer starter

Question ID : 75322911838

Status : Answered

Chosen Option : B

Q.57 The given symbol is used for:



- Ans  A. SPDT  
 B. DPST  
 C. SPST  
 D. DPDT

Question ID : 75322911888

Status : Answered

Chosen Option : B

Q.58 Which of the following is NOT a workspace in AutoCAD?

- Ans  A. 3D modelling  
 B. 3D printing  
 C. Drafting and annotation  
 D. 3D basics

Question ID : 75322911852

Status : Answered

Chosen Option : D

Q.59 In a cable, the maximum dielectric stress is experienced at the \_\_\_\_\_.

- Ans  A. bedding  
 B. surface of conductor  
 C. lead sheath  
 D. armour

Question ID : 75322911810

Status : Answered

Chosen Option : B

Q.60 For a transmission line, if L is the inductance and C is the capacitance per unit length of the line, then the surge impedance is expressed as:

Ans

- A.  $\sqrt{\frac{L}{C}}$
- B.  $\sqrt{\frac{L}{2C}}$
- C.  $\sqrt{\frac{2L}{C}}$
- D.  $\sqrt{LC}$

Question ID : 75322911894

Status : Answered  
Chosen Option : A

Q.61 Which of the following methods is NOT a valid method for maintaining the voltage within limits in EHV transmission lines?

- Ans  A. Synchronous condenser
- B. Shunt capacitor bank
- C. Autotransformer tap-changing
- D. Shunt reactors

Question ID : 75322911841  
Status : Answered  
Chosen Option : B

Q.62 The energy consumed by a 50 kW motor loaded at 30 kW for 6 hours will be \_\_\_\_\_.

- Ans  A. 180 kWh
- B. 50 kWh
- C. 120 kWh
- D. 300 kWh

Question ID : 75322911813  
Status : Answered  
Chosen Option : A

Q.63 Which of the following statements are true or FALSE?

- In p-n-p transistor, majority charge carriers are holes.
  - Silicon is the preferred semiconductor as compared to Germanium.
- Ans
- A. 1 - True, 2 - False
- B. 1 - False, 2 - False
- C. 1 - False, 2 - True
- D. 1 - True, 2 - True

Question ID : 75322911771  
Status : Answered  
Chosen Option : D

Q.64 In a transformer at full load, \_\_\_\_\_ losses are zero.

- Ans
- A. core
  - B. Eddy current
  - C. friction
  - D. copper

Question ID : 75322911834  
Status : Answered  
Chosen Option : C

Q.65 Normal distribution is symmetric about \_\_\_\_\_ .

- Ans
- A. standard variation
  - B. mean
  - C. variance
  - D. covariance

Question ID : 75322911752  
Status : Answered  
Chosen Option : B

Q.66 A cube having side 2 metres undergoes 1% increase in sides. Find the approximate change in the volume.

- Ans
- A.  $0.24 \text{ m}^3$
  - B.  $2.4 \text{ m}^3$
  - C.  $1.2 \text{ m}^3$
  - D.  $0.12 \text{ m}^3$

Question ID : 75322911884  
Status : Not Answered  
Chosen Option : -

Q.67 As per the standard electrical design and estimation, the numbers of 5 A and 15 A socket outlet for a dining room should be \_\_\_\_\_ and \_\_\_\_\_ , respectively.

- Ans
- A. three; two
  - B. one; one
  - C. two; one
  - D. one; two

Question ID : 75322911843  
Status : Answered  
Chosen Option : C



Q.68 Which of the following is NOT a part of coal fired thermal power plant?

- Ans  A. Moderator  
 B. Chimney  
 C. Condenser  
 D. Turbine

Question ID : 75322911797

Status : Answered

Chosen Option : A

Q.69 The programmable logic controller is classified into two types; \_\_\_\_\_ and \_\_\_\_\_.

- Ans  A. fixed; modular  
 B. actual; laboratory  
 C. automatic; manual  
 D. local; remote

Question ID : 75322911821

Status : Answered

Chosen Option : C

Q.70 A 4-pole wave wound armature has 720 conductors and is rotated at 1000 RPM. Find the generated voltage, if the useful flux is 10 mWb.

- Ans  A. 960 V  
 B. 240 V  
 C. 120 V  
 D. 480 V

Question ID : 75322911780

Status : Answered

Chosen Option : B

Q.71 Which of the following materials offers the highest dielectric strength?

- Ans  A. Paraffin wax  
 B. Dry paper  
 C. Mica  
 D. Asbestos

Question ID : 75322911766

Status : Answered

Chosen Option : D

Q.72 A two-input logic gate is giving low output when both the inputs are low. For all other input conditions, the output is high. Select the correct logic gate.

- Ans  A. OR gate  
 B. NAND gate  
 C. AND gate  
 D. NOR gate

Question ID : 75322911858

Status : Answered

Chosen Option : A

Q.73 The given symbol is used for a:



- Ans  A. heater  
 B. buzzer  
 C. single electric lamp  
 D. relay

Question ID : 75322911893

Status : Answered

Chosen Option : C

Q.74 Which type of chopper can be operated only in the second quadrant?

- Ans  A. Class D  
 B. Class A  
 C. Class B  
 D. Class E

Question ID : 75322911862

Status : Not Answered

Chosen Option : -

Q.75 With the addition of tertiary winding, the Y-Y connection becomes \_\_\_\_\_ connection.

- Ans  A. Y- $\Delta$ -Y  
 B. Y-Y- $\Delta$   
 C.  $\Delta$ -Y-Y  
 D.  $\Delta$ -Y- $\Delta$

Question ID : 75322911782

Status : Not Answered

Chosen Option : -

Q.76 The maximum permissible leakage current in any installation is \_\_\_\_\_ of full load current.

Ans

- A.  $\frac{1}{5000}$
- B.  $\frac{1}{1000}$
- C.  $\frac{1}{500}$
- D.  $\frac{1}{10000}$

Question ID : 75322911892

Status : Answered

Chosen Option : A

Q.77 Potential energy = ?

- A. mass  $\times$  velocity  $\times$  height
- B. mass  $\times$  gravitational acceleration  $\times$  height
- C. density  $\times$  velocity  $\times$  height
- D. mass  $\times$  velocity  $\times$  displacement

Question ID : 75322911758

Status : Answered

Chosen Option : B

Q.78 Which of the following is a vector quantity?

- A. Length
- B. Voltage
- C. Velocity
- D. Mass

Question ID : 75322911749

Status : Answered

Chosen Option : C

Q.79 Find the slope of the tangent to the curve  $y = \frac{2x}{(x^2+1)}$  at (0, 0).

- A. 2
- B. 0
- C. -2
- D. 3

Question ID : 75322911883

Status : Not Answered

Chosen Option : -

Q.80 Which of the following is NOT a characteristic of ACSR?

- Ans  A. Low maintenance  
 B. High corona loss  
 C. Low cost  
 D. High mechanical strength

Question ID : 75322911802

Status : Answered

Chosen Option : B

Q.81 Which of the following is NOT a pentavalent impurity?

- Ans  A. Antimony  
 B. Arsenic  
 C. Indium  
 D. Phosphorus

Question ID : 75322911770

Status : Answered

Chosen Option : C

Q.82 Which of the following motors is suitable for 3D printing equipment?

- Ans  A. Stepper motor  
 B. DC compound motor  
 C. Squirrel cage induction motor  
 D. DC series motor

Question ID : 75322911876

Status : Answered

Chosen Option : A

Q.83 If an instrument has zero drift, the magnitude of error will be:

- Ans  A. unpredictable  
 B. zero  
 C. constant  
 D. unity

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Question ID : 75322911754

Status : Not Answered

Chosen Option : -

Q.84 1986 का पर्यावरण संरक्षण अधिनियम पारित होने के बाद, किसी परियोजना के लिए पर्यावरणीय मंजूरी प्राप्त करने हेतु \_\_\_\_\_ अनिवार्य हो गया/गई है।

- Ans  A. ईआईए (EIA)  
 B. पीआईएल (PIL)  
 C. एफआईआर (FIR)  
 D. पीयूसी (PUC)

Question ID : 75322911788

Status : Answered

Chosen Option : D

Q.85 How many immobile contacts are there in a double-break oil circuit breaker?

- Ans  A. Two  
 B. Four  
 C. One  
 D. Eight

Question ID : 75322911817

Status : Answered

Chosen Option : C

Q.86 Which of the following devices can be considered as an uncontrolled switch?

- Ans  A. SCR  
 B. IGBT  
 C. DAIC  
 D. TRAIC

Question ID : 75322911861

Status : Answered

Chosen Option : B

Q.87 What is the colour of the neutral wire in a three-core flexible cable?

- Ans  A. Yellow  
 B. Blue  
 C. Green  
 D. Black

Question ID : 75322911809

Status : Answered

Chosen Option : B



Q.88 Which of the following is NOT a valid advantage of bundled conductor?

- Ans
- A. Reduced surge impedance
  - B. Reduced radio interference
  - C. Reduced cost of construction
  - D. Reduced voltage gradient

Question ID : 75322911804

Status : Answered

Chosen Option : C

Q.89 किसी संगठन में, कॉर्पोरेट प्रबंधक \_\_\_\_\_ स्तर पर कार्य करता है।

- Ans
- A. मध्य (middle)
  - B. परिचालन (operational)
  - C. कार्यात्मक (functional)
  - D. शीर्ष (top)

Question ID : 75322911816

Status : Not Attempted and Marked For Review

Chosen Option : -

Q.90 A 4-pole, 50 Hz, 3-phase induction motor runs at a speed of 1200 RPM. Find the slip.

- Ans
- A. 0.25
  - B. 0.15
  - C. 0.2
  - D. 0.1

Question ID : 75322911828

Status : Answered

Chosen Option : C

Q.91 Parallel connection of battery cells increases:

- Ans
- A. internal resistance
  - B. efficiency
  - C. output voltage
  - D. current capacity

Question ID : 75322911784

Status : Answered

Chosen Option : D

Q.92 Polyphase wattmeters are made by attaching \_\_\_\_\_ electro-dynamometer movements onto one shaft.

- Ans  A. 3  
 B. 4  
 C. 2  
 D. 5

Question ID : 75322911853  
Status : Not Answered  
Chosen Option : -

Q.93 In a synchronous machine having a salient pole field structure, the pole shoe covers about \_\_\_\_\_ of the pole pitch.

- Ans  A. one-third  
 B. two-thirds  
 C. one-fourth  
 D. one half

Question ID : 75322911830  
Status : Answered  
Chosen Option : B

Q.94 If  $t_o$  = Optimistic time,  $t_p$  = Pessimistic time, and  $t_n$  = Most likely time, Probabilistic time is given by:

- Ans  A.  
 B.  
 C.  
 D.

Question ID : 75322911890  
Status : Not Answered  
Chosen Option : -

Q.95 Find the transmission loss of 10 kV single-phase transmission line, if it delivers 800 kW at 0.8 pf lagging. Given that line resistance and line reactance is 0.2  $\Omega$  and 2  $\Omega$ , respectively.

- Ans  A. 2 kW  
 B. 4 kW  
 C. 6 kW  
 D. 1 kW

Question ID : 75322911805  
Status : Not Answered  
Chosen Option : -

Q.96 Find the resistance, if the colour code on a resistor reads Brown, Black, Red, Gold.

- Ans  A.  $100 \Omega \pm 5\%$   
 B.  $100 \Omega \pm 10\%$   
 C.  $1000 \Omega \pm 5\%$   
 D.  $1000 \Omega \pm 10\%$

Question ID : 75322911755

Status : Answered

Chosen Option : D

Q.97 In a steam power plant, the economiser is used to heat \_\_\_\_\_.

- Ans  A. feed water  
 B. steam  
 C. air  
 D. coal

Question ID : 75322911799

Status : Answered

Chosen Option : A

Q.98 The distance 's' metres covered by a body in t seconds, is given by  $s = 3t^2 - 12t + 5$ . The body will stop after \_\_\_\_\_.

- Ans  A. 2  
 B. 4  
 C. 8  
 D. 12

Question ID : 75322911896

Status : Not Answered

Chosen Option : --

Q.99 In a \_\_\_\_\_ power plant, gravitational potential energy is converted into electrical energy.

- Ans  A. diesel  
 B. nuclear  
 C. wind  
 D. hydroelectric

Question ID : 75322911812

Status : Answered

Chosen Option : D

Q.100 State whether the following statements are true or FALSE.

1. Interconnected power systems have higher diversity factor.
2. An interconnected power system is represented by an electrical grid.

- Ans
- A. Statement 1 is true, statement 2 is false
  - B. Both the statements are false
  - C. Both the statements are true
  - D. Statement 1 is false, statement 2 is true

Question ID : 75322911864

Status : Answered

Chosen Option : C

Q.101 Which of the following statements are true or FALSE?

1. The recommended colour of earth connection is green.
2. The size of the earth wire is determined by the ampere capacity of the service wires.

- Ans
- A. 1 - False, 2 - False
  - B. 1 - False, 2 - True
  - C. 1 - True, 2 - True
  - D. 1 - True, 2 - False

Question ID : 75322911796

Status : Answered

Chosen Option : D

Q.102 Half adder circuit can be produced using a two-input \_\_\_\_\_ gate and a two-input \_\_\_\_\_ gate.

- Ans
- A. OR; AND
  - B. XOR; AND
  - C. OR; NAND
  - D. NOR; NAND

Question ID : 75322911772

Status : Answered

Chosen Option : B

Q.103 As per Indian Electricity rule, the recommended operating voltage for a long transmission line is \_\_\_\_\_.

- Ans
- A. 50 kV to 100 kV
  - B. 20 kV to 50 kV
  - C. above 100 kV
  - D. 0 to 20 kV

Question ID : 75322911840

Status : Answered

Chosen Option : C

Q.104 The principle of operation of solar cell is \_\_\_\_\_ effect.

- Ans  A. thermoelectric  
 B. photovoltaic  
 C. Piezoelectric  
 D. skin

Question ID : 75322911800

Status : Answered

Chosen Option : B

Q.105 किसी संगठनात्मक संरचना के माध्यमिक प्रबंधन (Middle management) में निम्न में से कौन शामिल होता है?

- Ans  A. कर्मचारी  
 B. चपरासी  
 C. प्रबंध निदेशक  
 D. विभागीय प्रबंधक

Question ID : 75322911870

Status : Answered

Chosen Option : D

Q.106 In case of strip earthing, if the electrode is made of copper, then its cross-sectional area should NOT be less than \_\_\_\_\_.

- Ans  A. 25 mm × 4 mm  
 B. 25 mm × 1.6 mm  
 C. 2.5 mm × 16 mm  
 D. 2.5 mm × 40 mm

Question ID : 75322911863

Status : Answered

Chosen Option : A

Q.107 Two identical capacitors, each having a capacitance of 100  $\mu\text{F}$  are connected in parallel. Find the total capacitance of the parallel combination.

- Ans  A. 400  $\mu\text{F}$   
 B. 200  $\mu\text{F}$   
 C. 100  $\mu\text{F}$   
 D. 50  $\mu\text{F}$

Question ID : 75322911762

Status : Answered

Chosen Option : B



Q.108 25 mv, 2 mA डी'अर्सेन्वल मूवमेंट (D'Arsonval movement) का उपयोग 100 V के पूर्ण पैमाना पाठ्यांक (full scale reading) वाले वोल्टमीटर में किया जाना है। परिपथ में 100 V मीटर द्वारा निविष्ट प्रतिरोध ज्ञात कीजिए।

- Ans
- A. 1.0 MΩ
  - B. 0.01 MΩ
  - C. 0.1 MΩ
  - D. 0.001 MΩ

Question ID : 75322911757  
Status : Not Answered  
Chosen Option : -

Q.109 In a single-phase half bridge inverter, the \_\_\_\_\_ load is the leading power factor load.

- Ans
- A. RLC underdamped
  - B. C
  - C. LC
  - D. RLC overdamped

Question ID : 75322911846  
Status : Answered  
Chosen Option : D

Q.110 The given symbol is used for:



- Ans
- A. autotransformer starter
  - B. slip ring motor starter
  - C. star-delta starter
  - D. stator resistance starter

Question ID : 75322911891  
Status : Answered  
Chosen Option : A

Q.111 In a 3-phase, 6-pole star connected alternator, the stator has 90 slots and 8 conductors per slot. Find the number of stator conductors per phase.

- Ans
- A. 720
  - B. 360
  - C. 240
  - D. 120

Question ID : 75322911826  
Status : Answered  
Chosen Option : C

Q.112 In electric braking, the braking energy is converted into \_\_\_\_\_ energy.

- Ans  A. light  
 B. heat  
 C. chemical  
 D. electrical

Question ID : 75322911847  
Status : Answered  
Chosen Option : B

Q.113 \_\_\_\_\_ motor has the poorest speed regulation.

- Ans  A. DC series  
 B. DC shunt  
 C. Cumulative compound DC  
 D. Differential compound DC

Question ID : 75322911777  
Status : Answered  
Chosen Option : A

Q.114 Which of the following statements are true or FALSE?

1. Length of the zero vector is unity.
2. The zero vector has no direction.

- Ans  A. 1 - True, 2 - False  
 B. 1 - False, 2 - True  
 C. 1 - True, 2 - True  
 D. 1 - False, 2 - False

Question ID : 75322911750  
Status : Answered  
Chosen Option : A

Q.115 The tolerance band of a colour-coded resistor having  $\pm 10\%$  tolerance will be of \_\_\_\_\_ colour.

- Ans  A. black  
 B. silver  
 C. golden  
 D. grey

Question ID : 75322911854  
Status : Answered  
Chosen Option : C

Q.116 What is the reason for connecting a DC reactor in series with each pole of a converter station?

- Ans  A. To improve system stability  
 B. To prevent commutation failures in the inverter  
 C. To increase the power transfer capability  
 D. To supply reactive power to the converter

Question ID : 75322911807

Status : Answered

Chosen Option : C

Q.117 In an AC circuit, the apparent power is 250 VA and active power is 200 W. Find the reactive power.

- Ans  A. 100 Var  
 B. 50 Var  
 C. 200 Var  
 D. 150 Var

Question ID : 75322911759

Status : Answered

Chosen Option : D

Q.118 A 3300/250 V, 50 Hz transformer has 75 turns on low voltage winding. Find the number of turns on high voltage winding.

- Ans  A. 330  
 B. 1320  
 C. 660  
 D. 990

Question ID : 75322911781

Status : Answered

Chosen Option : D

Q.119 A 3-point starter is used to start \_\_\_\_\_ motors.

- Ans  A. series and compound  
 B. shunt and compound  
 C. series and shunt  
 D. only series

Question ID : 75322911839

Status : Answered

Chosen Option : B

Q.120 उस कंपनी की उत्पादकता ज्ञात कीजिए, जो 5 kg कच्चे माल का उपभोग करके स्वीकार्य गुणवत्ता के 4 kg प्लास्टिक पार्स का उत्पादन करती है?

- Ans  A. 0.4  
 B. 0.6  
 C. 0.8  
 D. 0.2

Question ID : 75322911869

Status : Answered

Chosen Option : C

Q.121 Starting from the transmission system side, the first equipment seen in the substation is a \_\_\_\_\_.

- Ans  A. current transformer  
 B. capacitor bank  
 C. lightning arrester  
 D. circuit breaker

Question ID : 75322911836

Status : Answered

Chosen Option : A

Q.122 The internal resistance of an ideal ammeter and an ideal voltmeter are \_\_\_\_\_ and \_\_\_\_\_, respectively.

- Ans  A. finite; finite  
 B. zero; zero  
 C. zero; infinite  
 D. infinite; zero

Question ID : 75322911756

Status : Answered

Chosen Option : B

Q.123 \_\_\_\_\_ को रोकने के लिए, सोल्डरिंग से पहले तार की प्री-टिनिंग (pre-tinning) की जाती है।

- Ans  A. बर्ड केजिंग (bird caging)  
 B. पृष्ठीय क्षेत्रफल हानि (surface area loss)  
 C. ऊष्मीय द्रव्यमान (thermal mass)  
 D. शिथिलन (weakening)

Question ID : 75322911794

Status : Not Answered

Chosen Option : -

Q.124 When the soil moisture content reduces below \_\_\_\_\_, the resistivity of the earth increases sharply.

- Ans  A. 75%  
 B. 5%  
 C. 50%  
 D. 20%

Question ID : 75322911833

Status : Answered

Chosen Option : D

Q.125 Highly conductive materials should have \_\_\_\_\_ flexibility and \_\_\_\_\_ cost.

- Ans  A. high; low  
 B. high; high  
 C. low; low  
 D. low; high

Question ID : 75322911856

Status : Answered

Chosen Option : B

Q.126 For which type of DC generator is the terminal voltage at full load less than the no-load terminal voltage?

- Ans  A. Over compound generator  
 B. Level compound generator  
 C. Under compound generator  
 D. Flat compound generator

Question ID : 75322911779

Status : Answered

Chosen Option : C

Q.127 Snubber circuit consists of \_\_\_\_\_.

- Ans  A. parallel combination of inductor and capacitor  
 B. series combination of inductor and capacitor  
 C. series combination of inductor and resistor  
 D. series combination of resistor and capacitor

Question ID : 75322911791

Status : Not Answered

Chosen Option : -

Q.128 At 400 V and 50 Hz, the total core loss in a transformer is 2400 W. When the transformer is supplied at 200 V, 25 Hz, the core loss is 800 W. Find the hysteresis loss at 400 V, 50 Hz.

- Ans
- A. 1000 W
  - B. 1200 W
  - C. 800 W
  - D. 1600 W

Question ID : 75322911835

Status : Answered

Chosen Option : D

Q.129 The pick-up value of a relay is 7.5 A and the fault current in the relay coil is 30 A. Its plug-setting multiplier is \_\_\_\_\_.

- Ans
- A. 4
  - B. 8
  - C. 6
  - D. 2

Question ID : 75322911819

Status : Answered

Chosen Option : A

Q.130 The area of the region bounded by the curve  $3y^2 = x$ , the y-axis and between  $y = 2$  and  $y = 4$  is:

- Ans
- A. 56 square units
  - B. 64 square units
  - C. 48 square units
  - D. 28 square units

Question ID : 75322911881

Status : Not Answered

Chosen Option : --

Q.131 किसी 3-फेज परपथ वयोजक को 1250 A, 1000 MVA, 33 kV पर रेट किया गया है। सफवस वोटेज (service voltage) यात क िजए।

- Ans
- A. 100 kV
  - B. 33 kV
  - C. 11 kV
  - D. 66 kV

Question ID : 75322911768

Status : Answered

Chosen Option : A

Q.132 In PLC, \_\_\_\_\_ is an example of output module and \_\_\_\_\_ is an example of input module.

- Ans  A. lamp; pushbutton  
 B. alarm; lamp  
 C. pushbutton; switch  
 D. switch; alarm

Question ID : 75322911823

Status : Answered

Chosen Option : A

Q.133 The insulation resistance of a cable of length 10 km is 0.5 MΩ. Find the resistance for 50km length.

- Ans  A. 2.5 MΩ  
 B. 12.5 MΩ  
 C. 0.1 MΩ  
 D. 0.5 MΩ

Question ID : 75322911811

Status : Answered

Chosen Option : D

Q.134 Which of the following statements are true or FALSE?

1. Direct lightning strokes are very rare on the power system.
2. Most lightning strokes are due to positively charged clouds.

- Ans  A. 1 - False, 2 - True  
 B. 1 - False, 2 - False  
 C. 1 - True, 2 - True  
 D. 1 - True, 2 - False

Question ID : 75322911818

Status : Answered

Chosen Option : C

Q.135 Which type of structure will there be in a pole mounted substation?

- Ans  A. C - type  
 B. A - type  
 C. H - type  
 D. Y - type

Question ID : 75322911837

Status : Answered

Chosen Option : C

Q.136 A  $\Delta$ - $\Delta$  connected transformer is connected to V-V connected transformer. The ratio of VArating of the V-V connected transformer and  $\Delta$ - $\Delta$  connected transformer is:

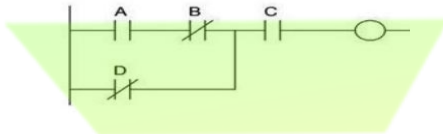
- Ans
- A. 0.777
  - B. 0.877
  - C. 0.577
  - D. 0.677

Question ID : 75322911783

Status : Answered

Chosen Option : C

Q.137 The Boolean function represented in th



- Ans
- A.  $ABC + D$   
 $C(AB + D)$
  - B.  $C + (A+B)D$
  - C.  $ABC + BD$
  - D.  $ABC + BD$

Question ID : 75322911886

Status : Answered

Chosen Option : B

Q.138 If  $\vec{a}$  is a vector and 'c' and 'k' are non-zero scalars, then  $(c + k) \vec{a} = ?$

- Ans
- A.  $c \vec{a} + k \vec{a}$
  - B. Unity
  - C.  $(c + \vec{a}) (k + \vec{a})$
  - D. Zero

Question ID : 75322911880

Status : Not Answered

Chosen Option : -



Q.139 What should be the safety factor for pin type insulators?

- Ans
- A. 5
  - B. 1
  - C. 10
  - D. 25

Question ID : 75322911808

Status : Answered

Chosen Option : C

Q.140 What will be the differential function of  $\log(x^2 + 2)$ ?

- Ans
- A.  $\frac{2x}{(x^2 - 2)} dx$
  - B.  $\frac{-2x}{(x^2 + 2)} dx$
  - C.  $\frac{-2x}{(x^2 - 2)} dx$
  - D.  $\frac{2x}{(x^2 + 2)} dx$

Question ID : 75322911882

Status : Answered

Chosen Option : D

Q.141 Static Kramer drive is an example of \_\_\_\_\_ scheme.

- Ans
- A. stator current control
  - B. rotor resistance control
  - C. slip power recovery
  - D. stator voltage control

Question ID : 75322911793

Status : Not Answered

Chosen Option : -

Q.142 In a synchronous machine, the stator core is made up of \_\_\_\_\_.

- Ans
- A. cast steel
  - B. cast iron
  - C. stainless steel
  - D. silicon steel laminations

Question ID : 75322911825

Status : Answered

Chosen Option : A

Q.143 Which of the following types of insulators is NOT suitable for a distribution system?

- Ans  A. Stay insulator  
 B. Shackle insulator  
 C. Pin insulator  
 D. Suspension insulator

Question ID : 75322911845

Status : Answered

Chosen Option : A

Q.144 \_\_\_\_\_ is NOT a graphical programming language for the programmable logic controller.

- Ans  A. Sequential function chart  
 B. Functional block diagram  
 C. Structured text  
 D. Ladder logic

Question ID : 75322911824

Status : Answered

Chosen Option : C

Q.145 The pressure of air in air blast circuit breakers should be of the order of:

- Ans  A. less than 1 kg/cm<sup>2</sup>  
 B. 20 to 30 kg/cm<sup>2</sup>  
 C. 200 to 300 kg/cm<sup>2</sup>  
 D. 2 to 3 kg/cm<sup>2</sup>

Question ID : 75322911897

Status : Answered

Chosen Option : B

Q.146 Class C Chopper can be operated in:

- Ans  A. first and second quadrant  
 B. second and third quadrant  
 C. third quadrant only  
 D. first and third quadrant

Question ID : 75322911792

Status : Not Answered

Chosen Option : -

Q.147 Hay bridge is NOT accurate, if the value of 'Q' of the inductor being measured is:

- Ans  A. more than 1000  
 B. less than 10  
 C. between 100 and 1000  
 D. more than 100

Question ID : 75322911855

Status : Answered

Chosen Option : B

Q.148 Bimetallic thermal overload relay is an example of a \_\_\_\_\_ sensing device.

- Ans  A. temperature  
 B. voltage  
 C. pressure  
 D. power

Question ID : 75322911878

Status : Answered

Chosen Option : A

Q.149 The given symbol is used for:



- Ans  A. XOR gate  
 B. NAND gate  
 C. NOR gate  
 D. AND gate

Question ID : 75322911885

Status : Answered

Chosen Option : C

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Q.150 Manganin is an alloy of:

- Ans  A. copper, aluminium and nickel  
 B. copper, manganese and nickel  
 C. aluminium, manganese and nickel  
 D. iron, manganese and zinc

Question ID : 75322911765

Status : Answered

Chosen Option : A

Q.1 In which year did Mahatma Jyotirao Phule write a book named 'Gulamgiri'?

- Ans  A. 1875  
 B. 1870  
 C. 1873  
 D. 1871

Question ID : 75322911902  
Status : Not Answered  
Chosen Option : -

Q.2 केंद्रीय वक्फ परिषद, अल्पसंख्यक कार्य मंत्रालय के प्रशासनिक नियंत्रण के अधीन एक सांविधिक निकाय है। इसे \_\_\_\_\_ में स्थापित किया गया था।

- Ans  A. 1960  
 B. 1955  
 C. 1964  
 D. 1961

Question ID : 75322911899  
Status : Answered  
Chosen Option : B

Q.3 भारतीय संविधान का निम्न में से कौन सा अनुच्छेद जीवन और व्यक्तिगत स्वतंत्रता के संरक्षण से संबंधित है?

- Ans  A. अनुच्छेद 20  
 B. अनुच्छेद 19  
 C. अनुच्छेद 18  
 D. अनुच्छेद 21

Question ID : 75322911916

Status : Answered  
Chosen Option : D

Q.4 Which of the following festivals is celebrated as the New Year's Day in Andhra Pradesh?

- Ans  A. Pongal  
 B. Lumbini  
 C. Visakha Utsav  
 D. Ugadi

Question ID : 75322911906  
Status : Answered  
Chosen Option : A

Q.5 कौन सा खनिज तंत्रिकाओं, मांसपेशियों और हृदय के सुचारू ढंग से कार्य करने के लिए महत्वपूर्ण है और रक्तचाप के स्तर को कम करने में मदद करता है?

- Ans
- A. आयरन
  - B. जिंक
  - C. आयोडीन
  - D. पोटैशियम

Question ID : 75322911913

Status : Answered

Chosen Option : A

Q.6 2011 की जनगणना के अनुसार, 2001-2011 में जनसंख्या घनत्व में निरपेक्ष वृद्धि कितनी थी?

- Ans
- A. 58
  - B. 47
  - C. 39
  - D. 57

Q.7 Where was the Secundrah Bagh, built by Nawab Wajid Ali Shah located, where British forces led by Campbell killed over 2000 rebel sepoys who held the place in 1857?

- Ans
- A. Lucknow
  - B. Awadh
  - C. Jhansi
  - D. Delhi

Question ID : 75322911904

Status : Answered

Chosen Option : C

Q.8 निम्नलिखित में से किस नदी का उद्गम स्थल बद्रीनाथ के ऊपर सतोपंथ ग्लेशियर में स्थित है?

- Ans
- A. भागीरथी
  - B. पेनगंगा
  - C. वेनगंगा
  - D. अलकनंदा

Question ID : 75322911910

Status : Not Answered

Chosen Option : -

Q.9 In which year was Export-Import Bank of India established?

- Ans  A. 1981  
 B. 1983  
 C. 1982  
 D. 1980

Question ID : 75322911909  
Status : Not Answered  
Chosen Option : -

Q.10 चुनाव सुधारों से संबंधित दिनेश गोस्वामी समिति का गठन भारत सरकार द्वारा किस वर्ष किया गया था?

- Ans  A. 1990  
 B. 1996  
 C. 1985  
 D. 1993

Question ID : 75322911918  
Status : Not Answered  
Chosen Option : -

Q.11 जनवरी 2021 तक प्राप्त जानकारी के अनुसार, राजनैतिक दलों के संबंध में निम्नलिखित में से कौन सा कथन सही नहीं है?

- Ans  A. बहुजन समाज पार्टी एक राष्ट्रीय पार्टी है।  
 B. राष्ट्रवादी कांग्रेस पार्टी एक क्षेत्रीय पार्टी है।  
 C. भारतीय कम्युनिस्ट पार्टी एक राष्ट्रीय पार्टी है।  
 D. ऑल इंडिया अन्ना डीएमके एक क्षेत्रीय पार्टी है।

Question ID : 75322911917  
Status : Answered  
Chosen Option : B

Q.12 In which of the following states is the Hornbill festival celebrated?

- Ans  A. Andhra Pradesh  
 B. Mizoram  
 C. West Bengal  
 D. Nagaland

Question ID : 75322911905  
Status : Answered  
Chosen Option : A

Q.13 जनता के पास मुद्रा के रूप में मौजूद धन और बैंक जमा के रूप में मौजूद धन का अनुपात \_\_\_\_\_ कहलाता है।

- Ans
- A. आरक्षित जमा अनुपात (reserve deposit ratio)
  - B. मुद्रा आरक्षित अनुपात (currency reserve ratio)
  - C. मुद्रा जमा अनुपात (currency deposit ratio)
  - D. आरक्षित नकदी निधि अनुपात (cash reserve ratio)

Question ID : 75322911907

Status : Answered

Chosen Option : C

Q.14 हेनरी का नियम कहता है कि, एक नियत ताप पर, किसी द्रव में गैस की विलेयता, उस द्रव या विलयन की सतह के ऊपर मौजूद गैस के आंशिक \_\_\_\_\_ के अनुक्रमानुपाती होती है।

- Ans
- A. तापमान
  - B. आयतन
  - C. घनत्व
  - D. दाब

Question ID : 75322911915

Status : Answered

Chosen Option : D

Q.15 बरेल पर्वत श्रेणी किस राज्य में स्थित है?

- Ans
- A. हिमाचल प्रदेश
  - B. असम
  - C. ओडिशा
  - D. बिहार

Question ID : 75322911911

Status : Not Answered

Chosen Option : -

Q.16 अंतर्राष्ट्रीय क्रिकेट में \_\_\_\_\_ हजार रन बनाने वाली पहली भारतीय महिला क्रिकेटर का नाम क्या है?

- Ans
- A. पनम ;
  - B. \_\_\_\_\_
  - C. मितार्ल
  - D. स्मर्

Question ID : 75322911900

Status : Answered

Chosen Option : D

Q.17 बाबर ने किस उम्र में फ़रग़ना का सिंहासन संभाला था?

Status : Answered

- Ans  A. 10 वर्ष  
 B. 11 वर्ष  
 C. 12 वर्ष  
 D. 13 वर्ष

Chosen Option : D

Q.18 Which of the following diseases is caused by the deficiency of Niacin?

- Ans  A. Beriberi  
 B. Ariboflavinosis  
 C. Pellagra  
 D. Rickets

Question ID : 75322911914

Status : Not Answered

Chosen Option : -

Q.19 निम्नलिखित में से कौन बिहार के आरा का एक स्थानीय जमींदार था, जिसने 1857 के विद्रोह में भाग लिया था?

- Ans  A. मौलवी अहमदुल्ला शाह  
 B. कुंवर सिंह  
 C. शाह मल  
 D. नाना साहिब

Question ID : 75322911901

Status : Answered

Chosen Option : B

Q.20 According to the Human Development Index report published by the United Nations Development Programme on 15 December, 2020 India's gross national income per capita fell to \_\_\_\_\_ in 2019 from \$6,829 in 2018 on the purchasing power parity (PPP) basis.

- Ans  A. \$6,791  
 B. \$6,681  
 C. \$6,461  
 D. \$6,571

Question ID : 75322911908

Status : Not Answered

Chosen Option : -



Q.1 Select the correct combination of mathematical signs that can sequentially replace \* signs from left to right to balance the following equation.

$$45 * 25 * 35 * 5 * 7 * 21$$

- Ans  A. +, x, ÷, -, =  
 B. -, x, ÷, +, =  
 C. +, -, ÷, x, =  
 D. +, -, x, ÷, =

Question ID : 75322911935

Status : Answered

Chosen Option : C

Q.19 निम्नलिखित में से कौन बिहार के आरा का एक स्थानीय जमींदार था, जिसने 1857 के विद्रोह में भाग लिया था?

- Ans  A. मौलवी अहमदुल्ला शाह  
 B. कुंवर सिंह  
 C. शाह मल  
 D. नाना साहिब

Question ID : 75322911926

Status : Answered

Chosen Option : A

Q.20 According to the Human Development Index report published by the United Nations Development Programme on 15 December, 2020 India's gross national income per capita fell to \_\_\_\_\_ in 2019 from \$6,829 in 2018 on the purchasing power parity (PPP) basis.

- Ans  A. \$6,791  
 B. \$6,681  
 C. \$6,461  
 D. \$6,571

Q.1 Select the correct combination of mathematical signs that can sequentially replace \* signs from left to right to balance the following equation.

$$45 * 25 * 35 * 5 * 7 * 21$$

- Ans  A. +, x, ÷, -, =  
 B. -, x, ÷, +, =  
 C. +, -, ÷, x, =  
 D. +, -, x, ÷, =

Q.2 निम्न अनुक्रम में ऐसी कितनी संख्याएं हैं, जिनके ठीक पहले '&' और ठीक बाद एक 'स्वर' है?

6 & E 7 9 A & 4 E 3 \* 4 K \$ & U & 4 E # A 4 & W A & 6 K & 9 G K & 7 A L + % & 6 E

- Ans  A. 6  
 B. 4  
 C. 3  
 D. 5

Q.3 In a code language, if RED is called PETROL, PETROL is called PLASTIC, PLASTIC is called CAR, CAR is called ROAD and ROAD is called CURTAIN, then what is used as a fuel for vehicles in this code language?

- Ans  A. PETROL  
 B. PLASTIC  
 C. ROAD  
 D. CAR

Question ID : 75322911927

Status : Answered

Chosen Option : B

EAD GROUP

Q.4 दिए गए कथनों और निष्कर्षों को ध्यानपूर्वक पढ़ें। कथनों में दी गई जानकारी को सत्य मानते हुए विचार करें, भले ही वह सामान्यतः ज्ञात तथ्यों से भिन्न प्रतीत होती हो और तय करें कि दिए गए निष्कर्षों में से कौन से कथनों का तार्किक रूप से पालन करते हैं?

कथन:

सभी मंत्री इंजीनियर हैं।

सभी राजनीतिज्ञ इंजीनियर हैं।

सभी इंजीनियर डॉक्टर हैं।

निष्कर्ष:

I. कुछ मंत्री राजनीतिज्ञ हैं।

II. कोई मंत्री राजनीतिज्ञ नहीं है।

III. सभी मंत्री डॉक्टर हैं।

- Ans
- A. केवल निष्कर्ष I और III पालन करते हैं।
  - B. केवल निष्कर्ष I पालन करता है।
  - C. (या तो निष्कर्ष I या II) और III पालन करते हैं।
  - D. केवल निष्कर्ष II और III पालन करते हैं।

Question ID : 75322911923

Status : Answered

Chosen Option : A

Q.5 एक महिला की तस्वीर की ओर इशारा करते हुए मानव ने कहा, "वह मेरी पत्नी की पुत्री की मां के भाई की मां हैं।" मानव का तस्वीर में मौजूद महिला से क्या संबंध है?

- Ans
- A. सास
  - B. मां
  - C. भाभी/भाई की पत्नी
  - D. बहन

Question ID : 75322911930

Status : Answered

Chosen Option : A

Q.6 An uncertain number of persons are sitting in a line facing the same direction. D is to the immediate left of A. Five persons sit between G and H. Two persons sit between E and F. Five persons sit between B and E. D is at the left end of the line. H is at the other end. Three persons sit between A and B. F is to the immediate left of G. E, B and A are towards the left of F. How many persons are sitting in the line?

- Ans
- A. 29
  - B. 32
  - C. 26
  - D. 22

Question ID : 75322911922

Status : Answered

Chosen Option : D

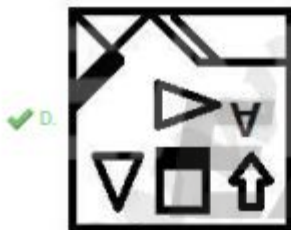
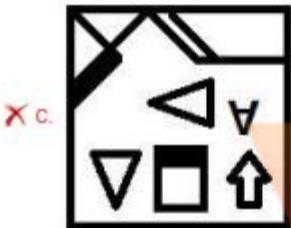
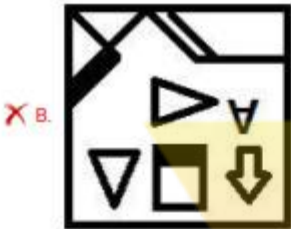
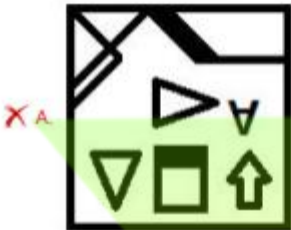


**EAD GROUP**

Q.7 Select the correct water image of the given figure



Ans



AD GROUP

Q.8 छ: मित्रों- K, L, M, N, O और P में से P, O से बड़ा है, N, L से छोटा है, K, M से छोटा है, P, K से छोटा है, और O, L से बड़ा है। इनमें से कौन O से बड़ा है, किंतु K से छोटा है?

Ans  A. M

B. P

C. N

D. L

Questio

n ID : 75322911921

Status : Answered  
Chosen Option : B

**EAD GROUP**

Q.8 छः मित्रों- K, L, M, N, O और P में से P, O से बड़ा है, N, L से छोटा है, K, M से छोटा है, P, K से छोटा है, और O, L से बड़ा है। इनमें से कौन O से बड़ा है, किंतु K से छोटा है?

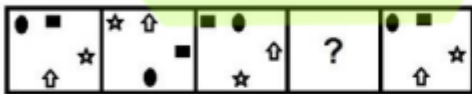
- Ans
- A. M
  - B. P
  - C. N
  - D. L

Question ID : 75322911921

Status : Answered

Chosen Option : B

Q.9 Select the figure from among the given options that can replace the question mark (?) in the following figure series.



Ans

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

Question ID : 75322911936

Status : Not Attempted and Marked For Review

Chosen Option : --

Q.10 'A + B' means 'A is the sister of B'  
'A @ B' means 'A is the son of B'  
'A # B' means 'A is the father of B'  
'A % B' means 'A is the daughter of B'

If H # K # U + T @ M % G + N, then how is G related to U?

- Ans
- A. Paternal grandmother
  - B. Paternal grandfather
  - C. Maternal grandfather
  - D. Maternal grandmother

Question ID : 75322911931

Status : Answered

Chosen Option : D

Q.11 Select the option that is related to the third word in the same way as the second word is related to the first word.

Singapore : Asia :: Ukraine : ?

- Ans
- A. Europe
  - B. Canada
  - C. Australia
  - D. South America

Question ID : 75322911932

Status : Answered

Chosen Option : A

Q.12 Select the correct option that indicates the arrangement of the given words in the order in which they appear in an English dictionary.

1. Preposition
2. Precious
3. Preoccupation
4. Prejudice
5. Prevail

- Ans
- A. 3, 4, 2, 1, 5
  - B. 2, 4, 3, 5, 1
  - C. 4, 2, 3, 1, 5
  - D. 2, 4, 3, 1, 5

Question ID : 75322911925

Status : Answered

Chosen Option : D



Q.13 Babita is standing in a park facing the north. Then, she turns  $180^\circ$  clockwise. After that, she turns  $90^\circ$  anticlockwise. Then, she turns  $45^\circ$  anticlockwise. She finally turns  $90^\circ$  anticlockwise. Which direction is she facing now?

- Ans  A. North-west  
 B. South-east  
 C. South-west  
 D. North-east

Question ID : 75322911929

Status : Answered

Chosen Option : A

Q.14 P, Q, R, S, T, U और V एक सीधी पंक्ति में एक ही दिशा की ओर मुख करके बैठे हैं। P बाएं सिरे से तीसरे स्थान पर बैठा है। V, U के दाईं ओर चौथे स्थान पर बैठा है। P, Q के बाईं ओर दूसरे स्थान पर बैठा है। R किसी एक सिरे पर बैठा है। S, U के बाईं ओर ठीक बगल में बैठा है। R, V के बगल में बैठा है। Q के बाईं ओर ठीक बगल में कौन बैठा है?

- Ans  A. T  
 B. R  
 C. P  
 D. S

 GROUP

Q.15 उस विकल्प का चयन कीजिए, जो नीचे दी गई आकृति में अंतर्निहित है (आकृति को घुमाने की अनुमति नहीं है)।



Ans

A.



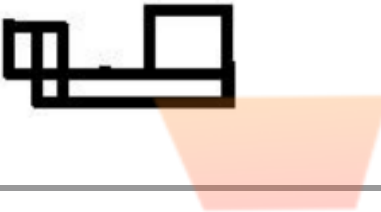
B.



C.



D.



**EAD GROUP**

Q.16 निव्या, रवि, ज़ोनिता, सांची, फातिमा और सूरज एक सीधी पंक्ति में उत्तर दिशा की ओर मुख करके बैठे हैं। निव्या और सूरज के बीच दो से अधिक व्यक्ति बैठे हैं। ज़ोनिता, निव्या के दाईं ओर ठीक बगल में बैठी है। रवि और निव्या के बीच केवल फातिमा बैठी है। सूरज, सांची के बाईं ओर ठीक बगल में बैठा है। बाएं सिरे से तीसरे स्थान पर कौन बैठा है?

- Ans
- A. निव्या
  - B. फातिमा
  - C. रवि
  - D. सांची

Question ID : 75322911919

Status : Answered

Chosen Option : B

Q.17 Select the number from among the given options that can replace the question mark (?) in the following series.

11, 22, 35, 52, 71, 94, ?

- Ans
- A. 131
  - B. 156
  - C. 123
  - D. 120

Question ID : 75322911933

Status : Not Answered

Chosen Option : --

Q.18 What approximate value should come in place of the question mark (?) in the following equation?

$554.012 + 287.997 \div 11.9896 - 12.0245 \times 9.009 - 245.987 = ?$

- Ans
- A. 224
  - B. 220
  - C. 352
  - D. 336

Question ID : 75322911934

Status : Not Attempted and Marked For Review

Chosen Option : --

Q.19 In a code language, SERPENT is coded as 201451618519. How will NAVIGATE be coded in that language?

- Ans
- A. 52118922114
  - B. 52017922114
  - C. 52017921113
  - D. 14121971205

Question ID : 75322911928

Status : Not Answered

Chosen Option : --

Q.20 If  $D < H < A$ ,  $T < H = F$ , and  $A < V < N = P$ , then which of the following conclusions is NOT correct?

- Ans  A.  $A < T$   
 B.  $H < N$   
 C.  $P > A$   
 D.  $D < F$

Question ID : 75322911924

Status : Answered

Chosen Option : A

Section : General Hindi

Q.1 'सिपाही रात को पहरा देता है।' वाक्य में कौन सा काल है?

- Ans  A. संभाव्य वर्तमान  
 B. संदिग्ध वर्तमान  
 C. सामान्य वर्तमान  
 D. पूर्ण वर्तमान

Question ID : 75322911939

Status : Not Answered

Chosen Option : -

Q.2 'सब नदियों' में 'सब' किस प्रकार का विशेषण है?

- Ans  A. सार्वनामिक  
 B. परिमाणबोधक  
 C. निश्चित संख्यावाचक  
 D. अनिश्चित संख्यावाचक

Question ID : 75322911942

Status : Answered

Chosen Option : D

Q.3 'आज सबेरे मैं आपके यहाँ गया था।' वाक्य में कौन सा काल है?

- Ans  A. अपूर्ण भूत  
 B. सामान्य भूत  
 C. पूर्ण भूत  
 D. आसन्न भूत

Question ID : 75322911940

Status : Not Answered

Chosen Option : -



***EAD GROUP***

Q.4 'ज्ञानी आदमी गंभीर होता है' अर्थ के लिए उपयुक्त लोकोक्ति कौन सी है:

- Ans  A. भैंस के आगे बीन बजाए, भैंस खड़ी पगुराय  
 B. बड़े बोल का सिर नीचा  
 C. बड़ों के कान होते हैं, आँखें नहीं  
 D. भरी गगरिया चुपके जाय

Question ID : 75322911946

Status : Answered

Chosen Option : D

Q.5 'विपत्ति' का विलोम क्या होगा?

- Ans  A. सुमति  
 B. सम्मति  
 C. संपत्ति  
 D. आपत्ति

Question ID : 75322911948

Status : Answered

Chosen Option : A

Q.6 'हाथ' का पर्यायवाची शब्द कौन सा है?

- Ans  A. पाणि  
 B. नग  
 C. पतंग  
 D. शार्दूल

Q.7 निम्नलिखित में कौन सा विकल्प 'अर्थ' के अनुसार क्रियाविशेषण का भेद नहीं है?

- Ans  A. तुलनावाचक  
 B. श्रेणिवाचक  
 C. पर्याप्तिवाचक  
 D. संबंधवाचक

Question ID : 75322911941

Status : Answered

Chosen Option : D

Q.8 'उत्तम पुरुष' के अंतर्गत कौन आता है?

- Ans  A. श्रोता और पाठक  
 B. वक्ता  
 C. पाठक  
 D. श्रोता

Question ID : 75322911944  
Status : Not Answered  
Chosen Option : -

Q.9 'हवाई किले बनाना' मुहावरे का सही अर्थ क्या है?

- Ans  A. कमजोर महल बनाना  
 B. विलक्षण कार्य करना  
 C. ऐतिहासिक महत्व का कार्य करना  
 D. मात्र कल्पना करते रहना

Q.10 निम्नलिखित में से कौन सा विकल्प 'अन्य पुरुष' है?

- Ans  A. तुम  
 B. मैं  
 C. वह  
 D. हम

EAD GROUP



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