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30 March 2022 Shift 2





UTTAR PRADESH POWER CORPORATION LTD.

Participant ID	
Participant Name	
Test Center Name	
Test Date	30/03/2022
Test Time	2:30 PM - 5:30 PM
Subject	Junior Engineer Trainee Electrical

Section : Domain Knowledge

Q.1 What is called a medium to large PLC system when their individual components are grouped together?

- Ans**
- ☒ A. Input assembly
 - ☒ B. Programming unit
 - ☒ C. Central processing unit
 - ☒ D. Mounting rack

Question ID : **75322913984**

Status : **Answered**

Chosen Option : **D**

Q.2 What type of applications are push button switches used in?

Ans ☒ A. Computer case power switch

☒ B. Stair case

☒ C. Bulb switch

☒ D. Geyser switch

Question ID : **75322914098**

Status : **Answered**

Chosen Option : **A**

Q.3 Which type of wiring is known as old wiring system?

Ans ☒ A. Conduit wiring

☒ B. Casing and capping wiring

☒ C. Lead sheathed wiring

☒ D. Batten wiring

Question ID : **75322914083**

Status : **Answered**

Chosen Option : **D**

Q.4 Which of the following is used to protect insulators or switch hardware on high voltage electric power transmission systems from damage during a flashover?

Ans ☒ A. Arcing horn

☒ B. Transient-voltage-suppression diode

☒ C. Lightning rod

☒ D. Isolator

Question ID : **75322914032**

Status : **Answered**

Chosen Option : **A**

Q.5 What is the erosion transmitted by electrical discharge in cable insulation or covering?

- Ans** ☒ A. Treeing
☒ B. Power workmanship
☒ C. Vermin
☒ D. Partial discharge

Question ID : 75322914054

Status : Answered

Chosen Option : D

Q.6 Which of the following is the ratio of the output signal of the given instrument to change the input or the variable under measurement?

- Ans** ☒ A. Precision
☒ B. Resolution
☒ C. Sensitivity
☒ D. Accuracy

Question ID : 75322913970

Status : Answered

Chosen Option : C

Q.7 Servo motor has _____ terminals.

- Ans** ☒ A. two
☒ B. six
☒ C. three
☒ D. four

Question ID : 75322914077

Status : Answered

Chosen Option : C

Q.8 What is the value of voltage if the oscilloscope is displayed each grid rectangle with 8 vertical rectangles corresponds to 500 mV in the vertical direction?

- Ans
- ☒ A. 12 V
 - ☒ B. 4 V
 - ☒ C. 16 V
 - ☒ D. 8 V

Question ID : 75322914073

Status : Answered

Chosen Option : B

Q.9 Which of the following is NOT a type of self-excited DC generator?

- Ans
- ☒ A. Permanent magnet field DC generator
 - ☒ B. Compound DC generator
 - ☒ C. Shunt wound DC generator
 - ☒ D. Series wound DC generator

Question ID : 75322913989

Status : Answered

Chosen Option : D

Q.10 Which type of electricity generation plant contributes to climate change or local air pollution?

- Ans
- ☒ A. Solar generation
 - ☒ B. Geothermal generation
 - ☒ C. Wind generation
 - ☒ D. Thermal generation

Question ID : 75322913999

Status : Answered

Chosen Option : D

Q.11 Which of the following is NOT protected by the National Environmental Policy Act, 1969'?

- Ans**
- ☒ A. Wildlife
 - ☒ B. Environmental health
 - ☒ C. Electricity quality
 - ☒ D. Air quality

Question ID : 75322914001

Status : **Answered**

Chosen Option : **C**

Q.12 What is the probability of getting an odd number for odd number of times, If the probability of getting an odd number two times is equal to the probability of getting an even number three times?

- Ans**
- ☒ A. $\frac{3}{2}$
 - ☒ B. $\frac{1}{2}$
 - ☒ C. $\frac{1}{5}$
 - ☒ D. $\frac{2}{9}$

Question ID : 75322914104

Status : **Answered**

Chosen Option : **B**

Q.13 Which equipment is used in an AC system similar to booster and chopper in DC transmission system?

- Ans** ☒ A. Power transformer
☐ B. Circuit breaker
☐ C. Auxiliary supply by battery storage
☐ D. Lightening arrester

Question ID : 75322914018

Status : **Answered**

Chosen Option : **A**

Q.14 What is wrong with anchors?

- Ans** ☒ A. High tensile metal
☐ B. A wall plug
☐ C. Rawl plug
☐ D. A fiber or plastic

Question ID : 75322914056

Status : **Answered**

Chosen Option : **A**

Q.15 Which type of cable is used when the voltage requirement exceeds 66 kV and solid cables cannot be used?

- Ans** ☐ A. Belted cables
☐ B. Screened cables
☒ C. Pressure cables
☐ D. Liquid cables

Question ID : 75322914023

Status : **Answered**

Chosen Option : **C**

Q.16 Which method is used to measure the resistance in the range of $1\ \Omega$ to $100\ \text{k}\Omega$?

- Ans
- ☒ A. Ducter Ohmmeter
 - ☒ B. Ammeter-Voltmeter Method
 - ☒ C. Kelvin's Double Bridge Method
 - ☒ D. Potentiometer Method

Question ID : 75322913973

Status : Answered

Chosen Option : B

Q.17 Which material is used to make a conductor for a transmission line passing through a marine atmosphere?

- Ans
- ☒ A. Copper
 - ☒ B. Aluminum
 - ☒ C. Cadmium – Copper alloys
 - ☒ D. Phosphor bronze

Question ID : 75322914061

Status : Answered

Chosen Option : C

Q.18 The conductivity is the conductance of a conductor whose _____.

- Ans
- ☒ A. only volume is $1\ \text{m}^3$
 - ☒ B. length and area half
 - ☒ C. only area is $1\ \text{m}^2$
 - ☒ D. only length is $1\ \text{m}$

Question ID : 75322914106

Status : Answered

Chosen Option : D

Q.19 Which type of connection is widely used to protect a medium voltage system?

- Ans ☒ A. Core balance sensing of feeder conductor
- ☒ B. A residually connected ground relay
- ☒ C. Detection of ground return current in the equipment grounding circuit
- ☒ D. Differential relaying

Question ID : **75322914034**

Status : **Answered**

Chosen Option : **C**

Q.20 Which of the following is NOT a function of the management process?

- Ans ☒ A. Planning
- ☒ B. Financing
- ☒ C. Staffing
- ☒ D. Controlling

Question ID : **75322914027**

Status : **Answered**

Chosen Option : **B**

Q.21 Which parameter is more reliable in HVDC transmission line as compared to AC transmission line?

- Ans ☒ A. Skin effect
- ☒ B. Corona loss
- ☒ C. Voltage drop
- ☒ D. length of transmission line

Question ID : **75322914019**

Status : **Answered**

Chosen Option : **D**

Q.22 Find the number of poles of a 240 V, 50 Hz alternator if it runs at 1500 rpm.

- Ans**
- ☒ A. Six
 - ☒ B. Two
 - ☒ C. Four
 - ☒ D. Eight

Question ID : **75322914040**

Status : **Answered**

Chosen Option : **C**

Q.23 Which of the following is considered as a distributed generation system?

- Ans**
- ☒ A. Thermal generation
 - ☒ B. Nuclear system
 - ☒ C. Transformer system
 - ☒ D. Battery storage system

Question ID : **75322914088**

Status : **Answered**

Chosen Option : **D**

Q.24 Which of the following is NOT essential for industrial management?

- Ans**
- ☒ A. Work on time
 - ☒ B. Maximum output with minimum input
 - ☒ C. Quality of products
 - ☒ D. New innovation

Question ID : **75322914028**

Status : **Answered**

Chosen Option : **D**

Q.25 Which of the following statements related to motion control of stepper motors is correct?

- Ans** ☒ A. It is produced high torque at low speeds
- ☒ B. It offers low precision drive control for motion control applications.
- ☒ C. It is expensive and widely available.
- ☒ D. It produces low vibrations levels.

Question ID : **75322913985**

Status : **Answered**

Chosen Option : **B**

Q.26 Which part of a DC generator is utilised for spreading the magnetic flux?

- Ans** ☒ A. Pole shoe
- ☒ B. Armature windings
- ☒ C. Poles
- ☒ D. Yoke

Question ID : **75322913990**

Status : **Answered**

Chosen Option : **A**

Q.27 Which of the following materials has the highest conductivity?

- Ans** ☒ A. Nichrome
- ☒ B. Mercury
- ☒ C. Nickel
- ☒ D. Paraffin wax

Question ID : **75322913977**

Status : **Answered**

Chosen Option : **B**

Q.28 The heat energy obtainable from hot rocks present inside the earth's crust is called:

- Ans
- ☒ A. thermal power plant energy
 - ☒ B. geothermal energy
 - ☒ C. solar heat energy
 - ☒ D. biomass

Question ID : 75322914013

Status : Answered

Chosen Option : B

Q.29 What does the convection mode of heat transfer represent?

- Ans
- ☒ A. How heat flows through empty spaces
 - ☒ B. How heat is transferred through metal
 - ☒ C. How heat passes through fluids
 - ☒ D. How heat travels between objects in direct contact

Question ID : 75322914100

Status : Answered

Chosen Option : D

Q.30 Which parameter is NOT considered while defining the rating of BUS bar of distribution?

- Ans
- ☒ A. Power
 - ☒ B. Short time current
 - ☒ C. Frequency
 - ☒ D. Current

Question ID : 75322914059

Status : Answered

Chosen Option : C

Q.31 Which of the following is NOT one of the ideal properties of a traction system?

- Ans** ☒ A. Wear caused more on track
- ☐ B. Maximum tractive effort in starting
- ☐ C. Braking should be possible without excessive wear on the brush
- ☐ D. Equipment capable of working in overload condition for a short time

Question ID : **75322914063**

Status : **Answered**

Chosen Option : **A**

Q.32 What sets of energy transformations are given inside a coal-fired power plant, where the thermal energy of steam is converted into mechanical energy?

- Ans** ☒ A. The turbine
- ☐ B. Through the heat exchanger
- ☐ C. Process of combustion
- ☐ D. A generator

Question ID : **75322914026**

Status : **Answered**

Chosen Option : **A**

Q.33 Which material is not used to make rotor bar instead of rotor winding in squirrel cage motor?

- Ans** ☐ A. Brass
- ☐ B. Copper
- ☐ C. Aluminum
- ☒ D. Soft iron

Question ID : **75322914044**

Status : **Answered**

Chosen Option : **D**

Q.34 Which type of material is used in solar cells and laser diodes?

- Ans ☒ A. Mono crystals
☒ B. Gallium arsenide
☒ C. Silicon
☒ D. Germanium

Question ID : **75322913982**

Status : **Answered**

Chosen Option : **B**

Q.35 Which of the following actions is required once in two years for maintenance of the transformer?

- Ans ☒ A. Checking for colour of silica gel in breather
☒ B. Reading of MOG (Magnetic Oil Gauge) of main tank
☒ C. Checking for leakage of oil from any point of a transformer
☒ D. Doing the calibration of OTI and WTI

Question ID : **75322914049**

Status : **Answered**

Chosen Option : **D**

Q.36 Which of the following rules defines the direction of rotation of a DC motor?

- Ans ☒ A. Fleming's left-hand rule
☒ B. Faraday's second rule
☒ C. Fleming's right-hand rule
☒ D. Faraday's first rule

Question ID : **75322913987**

Status : **Answered**

Chosen Option : **A**

Q.37 Suppose an object is moving along a parabolic path $y = x^2$. If $t = 5$, the x coordinate is 6 and we measure the speed at which the x coordinate of the object is changing and find that $\frac{dx}{dt} = 3$. At the same time, how fast is the y coordinate changing?

- Ans
- ☒ A. 12
 - ☒ B. 60
 - ☒ C. 66
 - ☒ D. 36

Question ID : 75322914101
Status : Answered
Chosen Option : A

Q.38 What is the distance between to point if the points coordination are (0,5) and (5,5)?

- Ans
- ☒ A. 10
 - ☒ B. 5
 - ☒ C. 1
 - ☒ D. 0

Question ID : 75322914069
Status : Answered
Chosen Option : B

Q.39 Which of the following reduces in a DC generator by laminating the core?

- Ans
- ☒ A. Copper loss
 - ☒ B. Hysteresis loss
 - ☒ C. Stray loss
 - ☒ D. Eddy current loss

Question ID : 75322913992
Status : Answered
Chosen Option : D

Q.40 In the construction of underground electrical cables bedding lies between _____ .

- Ans**
- ☒ A. conductor and insulation
 - ☒ B. metallic sheath and armouring
 - ☒ C. armouring and serving
 - ☒ D. metallic sheath and serving

Question ID : **75322914021**

Status : **Answered**

Chosen Option : **B**

Q.41 Which of the following Acts aims to protect forests by controlling the rates of deforestation?

- Ans**
- ☒ A. Forest Development Act, 1994
 - ☒ B. Wildlife Protection Act, 1972
 - ☒ C. The Forest (Conservation) Act, 1980
 - ☒ D. The Environment (Protection) Act, 1986

Question ID : **75322914002**

Status : **Answered**

Chosen Option : **C**



Q.42



Identify the type of insulator in the given image.

Ans

- ☒ A. Shackle insulator
- ☒ B. String insulator
- ☒ C. Strain insulator
- ☒ D. Stay insulator

Question ID : 75322914110

Status : Answered

Chosen Option : C

Q.43 Which of the following is NOT a correct property of oil transformer?

Ans

- ☒ A. Used for small transformers
- ☒ B. Overload capability
- ☒ C. Good isolation characteristics
- ☒ D. Long life cycle

Question ID : 75322913994

Status : Answered

Chosen Option : A

Q.44 What is the dot product of the two coordinates P(1, 3, -4) and Q(3, -5, 2)?

- Ans ☐ A. -18
☒ B. -20
☐ C. 25
☐ D. 15

Question ID : 75322913967

Status : Not Answered

Chosen Option : --

Q.45 Which of the following factors does NOT have to be considered before the actual wiring installation work is to be done for a residential home?

- Ans ☐ A. Type of ceiling
☒ B. Type of colour of building
☐ C. Type of building construction
☐ D. Wall and floor construction

Question ID : 75322914005

Status : Answered

Chosen Option : B

Q.46 Which of the following rotor types do we employ in a steam turbine-driven alternator?

- Ans ☐ A. Squirrelled cage
☒ B. Smooth cylindrical
☐ C. Salient pole
☐ D. Slip ring type

Question ID : 75322914038

Status : Answered

Chosen Option : B

Q.47 Which of the following is NOT an earthing type?

- Ans ☒ A. Pipe
☒ B. Rectangle
☒ C. Strip
☒ D. Plate

Question ID : **75322914084**

Status : **Answered**

Chosen Option : **B**

Q.48 Which of the following is used to make the field winding of a DC generator?

- Ans ☒ A. Mica
☒ B. Carbon
☒ C. Brass alloys
☒ D. Copper

Question ID : **75322913991**

Status : **Answered**

Chosen Option : **D**

Q.49 The connection of several generating stations in a network of a particular transmission voltage level is commonly known as _____.

- Ans ☒ A. electrical grid system
☒ B. distribution system
☒ C. central controlling system
☒ D. transmission system

Question ID : **75322914085**

Status : **Answered**

Chosen Option : **A**

Q.50 Which of the following is considered an internal inspection of a transformer?

- Ans ☒ A. All joints are checked for sign of leakage.
☒ B. Radiators can be examined for sludge.
☒ C. Dirt & Dust
☒ D. Signs of corrosion

Question ID : 75322914097

Status : Answered

Chosen Option : A

Q.51 What is the term used for transfer of heat from a hot body to a cold body in a straight line without affecting the intermediate medium?

- Ans ☒ A. Conduction
☒ B. Convection
☒ C. Radiation
☒ D. Direct

Question ID : 75322914065

Status : Answered

Chosen Option : C

Q.52 Which of the following statements related to earthing is INCORRECT?

- Ans ☒ A. High earth resistance wire
☒ B. Overload does not harm the device.
☒ C. Potential is zero.
☒ D. Offering safety

Question ID : 75322914009

Status : Answered

Chosen Option : A

Q.53 Which of the following does NOT causes a bearing fault in an induction motor?

- Ans**
- ☒ A. Wrong assembling
 - ☒ B. Mechanical stresses
 - ☒ C. Broken bars or broken end rings
 - ☒ D. Incorrect lubrication

Question ID : **75322914053**

Status : **Answered**

Chosen Option : **A**

Q.54 Which is the first and foremost thing that must be considered before starting electrical work?

- Ans**
- ☒ A. Types of electrical wiring systems
 - ☒ B. Type of load
 - ☒ C. Safety of the personnel
 - ☒ D. Distribution of electricity

Question ID : **75322914006**

Status : **Answered**

Chosen Option : **C**



Q.55 There are two ways to compute the sine of 1001 value ranging from 0 to 10.

A. `i = 0;
for t = 0:0.01:10
i = i + 1;
y(i) = sin(t);
end`

B. `t = 0:0.01:10;
y = sin(t);`

- Ans
- ☒ A. Both A and B execute at the same time
 - ☒ B. B executes much faster than A
 - ☒ C. Both A and B are not execution
 - ☒ D. A executes much faster than B

Question ID : 75322914111

Status : Not Answered

Chosen Option : --

Q.56 Which type of fault is considered as a stator fault in an AC motor?

- Ans
- ☒ A. Vibrations in the current harmonic content
 - ☒ B. Broken end rings
 - ☒ C. Incorrect lubrication
 - ☒ D. Broken bars

Question ID : 75322914096

Status : Answered

Chosen Option : A

Q.57 The temperature at which a metal loses magnetic force is called_____.

- Ans
- ☒ A. dementing temperature
 - ☒ B. least temperature
 - ☒ C. Curie temperature
 - ☒ D. letting temperature

Question ID : **75322913981**

Status : **Answered**

Chosen Option : **C**

Q.58 In which mode is PLC used to execute a user program?

- Ans
- ☒ A. Run mode
 - ☒ B. Test mode
 - ☒ C. Halt mode
 - ☒ D. Remote mode

Question ID : **75322914037**

Status : **Answered**

Chosen Option : **A**

Q.59 Which of the following is NOT a product of biomass?

- Ans
- ☒ A. Landfill gas
 - ☒ B. Liquefied petroleum gas
 - ☒ C. Ethanol
 - ☒ D. Biodiesel

Question ID : **75322914014**

Status : **Answered**

Chosen Option : **B**

Q.60 What type of motor is widely used in industry, they are approximately 80% of motors?

- Ans
- ☒ A. Single-phase induction motor
 - ☒ B. Universal motor
 - ☒ C. Three-phase synchronous motor
 - ☒ D. Three-phase induction motor

Question ID : 75322914043

Status : Answered

Chosen Option : D

Q.61 Which of the following properties is INCORRECTLY paired with its semiconductor?

- Ans
- ☒ A. Resistivity: 10^{-5} to $10^6 \Omega\text{m}$
 - ☒ B. Conductivity: 10^5 to 10^{-6} mho/m
 - ☒ C. Temperature coefficient of resistance: Positive
 - ☒ D. Current flow: Due to electrons and holes

Question ID : 75322914107

Status : Answered

Chosen Option : C

Q.62 Which parameter is measured by the unit of Siemen?

- Ans
- ☒ A. Conductance
 - ☒ B. Resistance
 - ☒ C. Reactance
 - ☒ D. Conductivity

Question ID : 75322913972

Status : Answered

Chosen Option : A

Q.63 Push-buttons are considered as which type of module of PLC?

- Ans
- ☒ A. Connecting module
 - ☒ B. Output module
 - ☒ C. Input module
 - ☒ D. Controlling module

Question ID : **75322914092**

Status : **Answered**

Chosen Option : **C**

Q.64 Which of the following is not an environmental problem directly related to energy production and consumption?

- Ans
- ☒ A. High lighting
 - ☒ B. Solid waste disposal
 - ☒ C. Thermal pollution
 - ☒ D. Climate change

Question ID : **75322914080**

Status : **Answered**

Chosen Option : **B**

Q.65 Which of the following materials has the highest conductivity?

- Ans
- ☒ A. Copper
 - ☒ B. Gold
 - ☒ C. Annealed copper
 - ☒ D. Calcium

Question ID : **75322914074**

Status : **Answered**

Chosen Option : **A**

Q.66 Which type of maintenance arises after a fault is observed in the motor starter?

- Ans ☒ A. Continuous maintenance
☒ B. Restorative maintenance
☒ C. Exiting maintenance
☒ D. Protective maintenance

Question ID : 75322914052

Status : Answered

Chosen Option : B

Q.67 What is the mass of a rod if the density of the rod is given by $\rho(x)=\sin x$ and it is oriented on the X-axis over the interval $[\pi/2, \pi]$?

- Ans ☒ A. 0.50
☒ B. 0.25
☒ C. 1
☒ D. 1.5

Question ID : 75322914071

Status : Answered

Chosen Option : C

Q.68 Which parts of the underground cable provides mechanical protection against various tensions of a cable?

- Ans ☒ A. Bedding
☒ B. Metallic sheath
☒ C. Armouring
☒ D. Insulation screen

Question ID : 75322914022

Status : Answered

Chosen Option : C

Q.69 Which of the following is known as the overhead wire of special cross section in a traction system?

- Ans
- ☒ A. Conduction material
 - ☒ B. Pantograph
 - ☒ C. Catenary
 - ☒ D. Smoothing reactor

Question ID : 75322914064

Status : **Answered**

Chosen Option : C

Q.70 Why are large AC machines three-phase type synchronous machines?

- Ans
- ☒ A. These motors are self-starting.
 - ☒ B. Non-uniform torque is produced
 - ☒ C. Three-phase power is transmitted and distributed more economically than single-phase power.
 - ☒ D. It gives the same output as single-phase machines.

Question ID : 75322914045

Status : **Answered**

Chosen Option : C

Q.71 How many AutoCAD objects are in a rectangle shape?

- Ans
- ☒ A. Four
 - ☒ B. One
 - ☒ C. Three
 - ☒ D. Two

Question ID : 75322914068

Status : **Not Answered**

Chosen Option : --

Q.72 Which part of an energy meter is made up of a few turns of thick wire connected in series with the load?

- Ans ☒ A. Current coil
☒ B. Stator coil
☒ C. Voltage coil
☒ D. Pressure coil

Question ID : 75322913975

Status : Answered

Chosen Option : A

Q.73 The DC transmission line has _____ stress as compared to the AC transmission line, at same voltage.

- Ans ☒ A. less
☒ B. more
☒ C. double
☒ D. Constant

Question ID : 75322914020

Status : Answered

Chosen Option : A

Q.74 Which of the following is NOT a negative effect when the class or array of a variable is changed in MATLAB?

- Ans ☒ A. It slows down the process.
☒ B. It works with special features.
☒ C. Performance is negative.
☒ D. It takes extra time.

Question ID : 75322914067

Status : Answered

Chosen Option : B

Q.75 Dielectric loss _____ in the AC transmission line and _____ in the DC transmission line.

- Ans**
- ☒ A. occurs, does not occur
 - ☐ B. does not occur, occurs
 - ☐ C. occurs, occurs
 - ☐ D. does not occur, does not occur

Question ID : 75322914017

Status : **Answered**

Chosen Option : **A**

Q.76 Which of the following statements related to clean energy is INCORRECT?

- Ans**
- ☐ A. Lower consumer energy bills
 - ☒ B. Decrease state and local economic development and job creation
 - ☐ C. Improved energy system reliability and security
 - ☐ D. Reduced air pollution and greenhouse gas emissions

Question ID : 75322914000

Status : **Answered**

Chosen Option : **B**

Q.77 A heater wire of $220\ \Omega$ dissipates 3 W of power. Find the applied voltage.

- Ans**
- ☐ A. 18.6 V
 - ☐ B. 50.0 V
 - ☒ C. 25.7 V
 - ☐ D. 15.5 V

Question ID : 75322914024

Status : **Answered**

Chosen Option : **C**

Q.78 Find the root of $f(x) = x^3 - 3x^2 - 3x + 6$ between 3 and 4. Approximate the root to two decimal places.

- Ans
- ☒ A. 3.12
 - ☒ B. 3.26
 - ☒ C. 3.56
 - ☒ D. 3.36

Question ID : 75322914102

Status : Not Answered

Chosen Option : --

Q.79 Which type of circuit breaker requires extra care to be taken during maintenance?

- Ans
- ☒ A. Bulk oil circuit breaker
 - ☒ B. Minimum oil circuit breaker
 - ☒ C. Air blast circuit breaker
 - ☒ D. SF₆ circuit breaker

Question ID : 75322914051

Status : Answered

Chosen Option : A

Q.80 Which of the following is NOT a property of conductor of distribution?

- Ans
- ☒ A. Low coefficient of thermal expansion
 - ☒ B. High tensile strength
 - ☒ C. Light weight
 - ☒ D. Low thermal stability

Question ID : 75322914060

Status : Answered

Chosen Option : D

Q.81 Which wiring is suitable for places exposed to sun and rain and damp places?

- Ans ☒ A. Wood casing capping wiring
- ☒ B. Lead sheathed wiring
- ☒ C. Cleat wiring
- ☒ D. Conduit wiring

Question ID : 75322914057

Status : Answered

Chosen Option : B

Q.82 Which type of interconnection system does NOT require synchronisation?

- Ans ☒ A. Regional grid connection
- ☒ B. High voltage alternating current interconnection
- ☒ C. National grid connection
- ☒ D. High voltage direct current interconnection

Question ID : 75322914015

Status : Answered

Chosen Option : D

Q.83 In a power system, the current interruption devices are called _____ .

- Ans ☒ A. current transformers
- ☒ B. relays
- ☒ C. transformers
- ☒ D. circuit breakers

Question ID : 75322914031

Status : Answered

Chosen Option : D

Q.84 _____ is the process in which the instantaneous discharge of electrical energy takes place by transferring charges directly to the earth through a low resistance wire.

- Ans ☒ A. Earthing
- ☒ B. Energy conservation
- ☒ C. Grounding of DC circuit
- ☒ D. Fault clearing

Question ID : 75322914008

Status : Answered

Chosen Option : A

Q.85 Which of the following is the safest method of wiring in residential buildings?

- Ans ☒ A. Batten wiring
- ☒ B. Concealed wiring
- ☒ C. Casing and capping wiring
- ☒ D. Surface conduit wiring

Question ID : 75322914007

Status : Answered

Chosen Option : B

Q.86 What is the integration of $\int \operatorname{cosec} x \cot x \, dx$?

- Ans ☒ A. $-\operatorname{cosec} x + C$
- ☒ B. $\sec x + C$
- ☒ C. $\tan x + C$
- ☒ D. $-\cot x + C$

Question ID : 75322913969

Status : Answered

Chosen Option : D

Q.87



Identify the symbol of the motor shown in the given figure?

Ans

- ✓ A. Brushless DC motors
- ✗ B. AC motors
- ✗ C. Servo motors
- ✗ D. DC motors

Question ID : 75322914115

Status : Answered

Chosen Option : B

Q.88 Which scenario of energy conversion from chemical energy to heat and light energy is involved?

Ans

- ✗ A. Fuel cells
- ✗ B. Electric heater
- ✓ C. Burning of wood
- ✗ D. Electric lamp

Question ID : 75322914025

Status : Answered

Chosen Option : C

Q.89 The point where objects move around themselves in AutoCAD is known as _____

- Ans**
- ☒ A. bottom of object
 - ☒ B. origin point
 - ☒ C. base point
 - ☒ D. center point

Question ID : **75322914070**

Status : **Answered**

Chosen Option : **D**

Q.90 Which is considering a type of gas dielectric?

- Ans**
- ☒ A. Distilled Water
 - ☒ B. Glass
 - ☒ C. Mica
 - ☒ D. Vacuum

Question ID : **75322913978**

Status : **Answered**

Chosen Option : **D**

Q.91 Which of the following statements related to parallel operating alternators is correct?

- Ans**
- ☒ A. Low efficiency
 - ☒ B. Operating in less full load
 - ☒ C. Operating cost is reduced
 - ☒ D. Generating cost is increased

Question ID : **75322914039**

Status : **Answered**

Chosen Option : **B**

Q.92 What should be minimum height of an overhead line that is used to supply power to tram cars?

- Ans ☒ A. 3 m
☒ B. 1 m
☒ C. 7 m
☒ D. 5 m

Question ID : 75322914099

Status : Answered

Chosen Option : D

Q.93 What type of feature is combined to make a hybrid stepper motor?

- Ans ☒ A. Stepper motor and servo motor
☒ B. Brushless DC motor and variable reluctance
☒ C. Variable reluctance and permanent-magnet stepper motors
☒ D. Servo motor and brushless DC motor

Question ID : 75322914094

Status : Answered

Chosen Option : C

Q.94 Which of the following statements related to dielectric materials is INCORRECT?

- Ans ☒ A. The attraction between the electrons and the parent nucleus is very weak.
☒ B. The temperature coefficient of resistance is negative.
☒ C. The energy gap in the dielectric materials is very large.
☒ D. Dielectric materials have high resistivity.

Question ID : 75322913979

Status : Answered

Chosen Option : A

Q.95 Which type of test is performed on a circuit breaker after installation to verify the readiness and proper functioning of the circuit breaker?

- Ans
- ☐ A. Routine test
 - ☐ B. Development test
 - ☒ C. Commissioning test
 - ☐ D. Critical type test

Question ID : 75322914095

Status : Answered

Chosen Option : C

Q.96 Which of the following is called a two-quadrant type-B chopper?

- Ans
- ☐ A. Type E chopper
 - ☐ B. Type B chopper
 - ☒ C. Type D chopper
 - ☐ D. Type C chopper

Question ID : 75322914003

Status : Answered

Chosen Option : D

Q.97 Which of the following statements related to AC transmission lines is INCORRECT?

- Ans
- ☐ A. The interconnection of the two AC networks is the synchronous tie.
 - ☒ B. AC transmission line is used as interconnection for two different frequency systems.
 - ☐ C. If the two AC systems are connected to the fault line, then the fault level of each AC system remains unchanged.
 - ☐ D. The power swings in one system affect the other system.

Question ID : 75322914016

Status : Answered

Chosen Option : B

Q.98 Which of the following is NOT an aspect of clean energy?

- Ans
- ☒ A. Energy efficiency
 - ☒ B. Renewable energy
 - ☒ C. Non-renewable energy
 - ☒ D. Efficient combined heat and power

Question ID : 75322913998

Status : **Answered**

Chosen Option : C

Q.99 In which type of circuit breaker's test, oscillogram is taken to know the behaviour of the circuit breaker at the time of switching?

- Ans
- ☒ A. Dielectric test
 - ☒ B. Thermal test
 - ☒ C. Short-circuit test
 - ☒ D. Mechanical test

Question ID : 75322914090

Status : **Answered**

Chosen Option : C

Q.100 What is the minimum installed electric power generation capacity source in India (2016-2017)?

- Ans
- ☒ A. Oil
 - ☒ B. Coal
 - ☒ C. Nuclear
 - ☒ D. Gas

Question ID : 75322914011

Status : **Answered**

Chosen Option : A

Q.101 What is the total number of current carriers in an intrinsic semiconductor if the number of conduction electrons is $7 \times 10^{19} \text{ m}^{-3}$ and the semiconductor size is $1 \text{ cm} \times 1 \text{ cm} \times 1 \text{ mm}$?

- Ans**
- ☒ A. 12×10^{19}
 - ☒ B. 14×10^6
 - ☒ C. 14×10^{12}
 - ☒ D. 12×10^6

Question ID : **75322914108**

Status : **Answered**

Chosen Option : **C**

Q.102 What is the main reason for using backup in a protection system in an electrical circuit?

- Ans**
- ☒ A. No chance for system failure
 - ☒ B. To continue working when main protection fails in operation
 - ☒ C. Increasing the protection speed
 - ☒ D. Finding the fault

Question ID : **75322914030**

Status : **Answered**

Chosen Option : **B**



Q.103 What is the probability that head will turn up an odd number of times if a coin is tossed n times?

Ans

☐ A. $\frac{n}{2}$

☒ B. $\frac{1}{2}$

☐ C. $\frac{2n}{n-2}$

☐ D. $\frac{n-2}{2n}$

Question ID : 75322914105

Status : **Answered**

Chosen Option : **B**

Q.104 Which wave is considered in bi-directional waveform?

Ans

☐ A. Square-wave timing signals

☐ B. Clock pulses

☐ C. Trigger pulses

☒ D. Triangular waves

Question ID : 75322913976

Status : **Answered**

Chosen Option : **D**

Q.105 Which of the following serves as an insulator for conductivity in rainy conditions?

Ans

☐ A. Smoothing design

☐ B. Colour of insulator

☐ C. Ceramic material

☒ D. Petticoat design

Question ID : 75322914087

Status : **Answered**

Chosen Option : **D**

Q.106 Which of the following is NOT used/done for self-starting of a single-phase induction motor?

- Ans**
- ☒ A. Shaded pole
 - ☒ B. Capacitor
 - ☒ C. Splitting the phase
 - ☒ D. Increasing resistance

Question ID : **75322914042**

Status : **Answered**

Chosen Option : **D**

Q.107 Which part of a DC motor is made up of a graphite and carbon structure?

- Ans**
- ☒ A. Stator
 - ☒ B. Commutator
 - ☒ C. Armature
 - ☒ D. Brushes

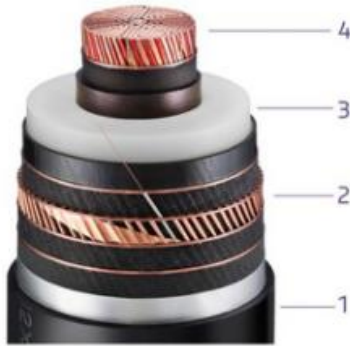
Question ID : **75322913988**

Status : **Answered**

Chosen Option : **D**



Q.108



Which of the following is represented by the number 2 in the given cable figure?

Ans

- ✓ A. Wire screen
- ✗ B. Insulating layer
- ✗ C. Electric conductor
- ✗ D. Cable sheath

Question ID : 75322914116

Status : Answered

Chosen Option : D

Q.109 What is the name of the metal rod mounted on a structure and intended to protect the structure from a lightning strike?

Ans

- ✗ A. Earth electrode
- ✗ B. Spark gap
- ✓ C. Lightning rod
- ✗ D. Metal-oxide varistor

Question ID : 75322914033

Status : Answered

Chosen Option : C

Q.110 For variable frequency drive why is a cyclo-converter preferred over an inverter?

- Ans ☒ A. Because cyclo-converter requires single-stage conversion
- ☒ B. Because inverter is a high speed changer
- ☒ C. Because cyclo-converter is a high speed changer
- ☒ D. Because inverter requires double-stage conversion

Question ID : 75322914004

Status : **Not Answered**

Chosen Option : --

Q.111 Which of the following laws is related to infection waste?

- Ans ☒ A. Hazardous Wastes (Management, Handling and Transboundary) Rules, 2008
- ☒ B. Biomedical Waste (Management and Handling) Rules, 1998
- ☒ C. Batteries (Management & Handling) Rules, 2001
- ☒ D. Municipal Solid Wastes (Management and Handling) Rules, 2000

Question ID : 75322914082

Status : **Answered**

Chosen Option : **B**

Q.112 At starting condition in a single-phase induction motor, both the forward and backward components of flux are exactly opposite to each other. In such case, the net torque is_____

- Ans ☒ A. minimum to no load
- ☒ B. minimum to full load
- ☒ C. zero
- ☒ D. maximum to full load

Question ID : 75322914041

Status : **Answered**

Chosen Option : **C**

Q.113 Skin effects and proximity effects are found in ____.

- Ans ☒ A. AC systems
☒ B. DC systems
☒ C. converted system
☒ D. both, AC and DC systems

Question ID : 75322914086

Status : Answered

Chosen Option : A

Q.114 Which of the following is NOT a property of solar energy?

- Ans ☒ A. The transmission cost is zero for a stand-alone solar system.
☒ B. It require large area for bulk production.
☒ C. Initial expenses are high.
☒ D. The maintenance cost is high.

Question ID : 75322914010

Status : Answered

Chosen Option : A

Q.115 Which of the following statements related to servo motors is INCORRECT?

- Ans ☒ A. It provides high levels of torque at high speed.
☒ B. It is inexpensive and widely available.
☒ C. Servo motors can work in AC or DC drive.
☒ D. It can be operated at 80–90% efficiency.

Question ID : 75322913986

Status : Answered

Chosen Option : B

Q.116 What is mean if a dice is tossed twice and getting an odd number is termed a success?

- Ans ☒ A. 1
☐ B. $\frac{1}{2}$
☐ C. $\frac{2}{3}$
☐ D. $\frac{1}{4}$

Question ID : 75322914103

Status : Answered

Chosen Option : D

Q.117 How many machines is/are used to control the heavy duty motor by Ward Leonard method?

- Ans ☐ A. 3
☐ B. 4
☒ C. 2
☐ D. 1

Question ID : 75322914062

Status : Answered

Chosen Option : A

Q.118 Which factor does not affect the earth resistivity?

- Ans ☐ A. Soil condition
☐ B. Dissolved salt
☐ C. Climate condition
☒ D. Voltage level

Question ID : 75322914047

Status : Answered

Chosen Option : D

Q.119 Which Category of relay, Are You Considering Bookholz relay?

- Ans ☒ A. Float type relay
☒ B. Mechanical interlocks
☒ C. Power relays
☒ D. Thermal relay

Question ID : **75322914035**

Status : **Answered**

Chosen Option : **A**

Q.120 Which of the following is NOT a purpose of the protection relay?

- Ans ☒ A. Detecting a problem
☒ B. Increasing the perfection of the equipment
☒ C. Significantly reducing damage to the equipment
☒ D. Operation can be done with in time

Question ID : **75322914091**

Status : **Answered**

Chosen Option : **B**

Q.121 Which of the following defines the amount of electrical energy stored for every kilogram of battery mass?

- Ans ☒ A. Charge capacity
☒ B. Energy stored
☒ C. Energy density
☒ D. Specific energy

Question ID : **75322913996**

Status : **Answered**

Chosen Option : **D**

Q.122 Which of the following laws is NOT a legislation for environment protection?

- Ans** ☒ A. The National crop protection Act, 2015
☐ B. The National Green Tribunal Act, 2010
☐ C. The Hazardous Waste Management Regulations, 2016
☐ D. The Environment Protection Act, 1986

Question ID : **75322914081**

Status : **Answered**

Chosen Option : **A**

Q.123 The functionality of which plant is almost similar to that of a nuclear power plant?

- Ans** ☐ A. Hydro power plant
☐ B. Wind power plant
☒ C. Thermal power plant
☐ D. Biomass power plant

Question ID : **75322914012**

Status : **Answered**

Chosen Option : **C**

Q.124 In a PLC system, which of the following are dedicated modules for outputs?

- Ans** ☐ A. Temperature sensors
☐ B. Metal sensors
☐ C. Push-buttons
☒ D. Motor starters

Question ID : **75322914036**

Status : **Answered**

Chosen Option : **B**

Q.125 How many units (KWh) of electrical energy have been used in a home if an 8 KW geyser, a 5 KW electric press and four 100 watt bulbs have been in use for 10 hours?

- Ans
- ☒ A. 178 kWh
 - ☒ B. 112 kWh
 - ☒ C. 92 kWh
 - ☒ D. 134 kWh

Question ID : 75322913974

Status : Answered

Chosen Option : D

Q.126 Which of the following is NOT done for prevention of water pollution?

- Ans
- ☒ A. Non-renewable generation sources are used
 - ☒ B. The use of single-use plastics is restricted
 - ☒ C. CO₂ emissions are reduced
 - ☒ D. The use of chemical pesticides and nutrients on crops are reduced.

Question ID : 75322914109

Status : Answered

Chosen Option : A

Q.127 Which type of lithium storage batteries is NOT commercially available?

- Ans
- ☒ A. Lithium–nickel oxide
 - ☒ B. Lithium–cobalt oxide
 - ☒ C. Lithium–manganese dioxide
 - ☒ D. Lithium–iron oxide

Question ID : 75322914079

Status : Answered

Chosen Option : D

Q.128 What is the solution to a problem that loading current presented by TTL inputs, since the CMOS output must sink current for each TTL input to a 'low' state?

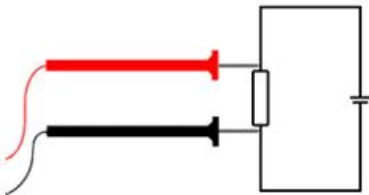
- Ans
- ☐ A. Open-output
 - ☐ B. Open-base
 - ☐ C. Open-emitter
 - ☒ D. Open-collector

Question ID : 75322913983

Status : **Not Answered**

Chosen Option : --

Q.129



What parameter is measured according to the given multimeter connection diagram?

- Ans
- ☐ A. Power
 - ☐ B. Capacitance
 - ☒ C. Voltage
 - ☐ D. Current

Question ID : 75322914112

Status : **Answered**

Chosen Option : **C**

Q.130 Which of the following is known as short term planning?

- Ans
- ☒ A. Continuous planning
 - ☒ B. Strategic planning
 - ☒ C. Operational planning
 - ☒ D. Functional planning

Question ID : **75322914089**

Status : **Answered**

Chosen Option : **B**

Q.131 Which of the following types of battery CANNOT be recharged simply by reversing the current?

- Ans
- ☒ A. Lithium polymer battery
 - ☒ B. Lead acid battery
 - ☒ C. Metal air battery
 - ☒ D. Lithium ion battery

Question ID : **75322913997**

Status : **Answered**

Chosen Option : **B**

Q.132 Which of the following is an INCORRECT rating of dielectric material?

- Ans
- ☒ A. Loss angle
 - ☒ B. Breakdown voltage
 - ☒ C. Permittivity
 - ☒ D. High recharging current

Question ID : **75322914075**

Status : **Answered**

Chosen Option : **D**

Q.133 The regular checking and maintenance of transformer is known as _____ .

- Ans
- ☒ A. reflecting maintenance
 - ☒ B. continuous maintenance
 - ☒ C. condition maintenance
 - ☒ D. regular maintenance

Question ID : 75322914048

Status : Answered

Chosen Option : D

Q.134 Application of integration can determine _____.

- Ans
- ☒ A. the area between two curves
 - ☒ B. centre of gravity
 - ☒ C. mass and momentum of satellites
 - ☒ D. thrust

Question ID : 75322913968

Status : Answered

Chosen Option : A

Q.135 Which of the following types of magnet is magnetic only when the magnetic field is present?

- Ans
- ☒ A. Permanent magnets
 - ☒ B. Electromagnets
 - ☒ C. Soft magnets
 - ☒ D. Hard magnets

Question ID : 75322913980

Status : Answered

Chosen Option : A

Q.136 Find the absolute maximum of $(x)=x^2-4x+3$ over the interval $[1,4]$.

Ans ☒ A. 3

☐ B. 2

☐ C. 1

☐ D. 4

Question ID : 75322914072

Status : Answered

Chosen Option : D

Q.137 Which of the following is NOT a type of systematic error?

Ans ☐ A. Instrumental error

☐ B. Observation error

☒ C. Gross error

☐ D. Environmental error

Question ID : 75322913971

Status : Answered

Chosen Option : C



Q.138

A	B	C	?
0	0	0	0
0	0	1	1
0	1	0	1
0	1	1	1
1	0	0	1
1	0	1	1
1	1	0	1
1	1	1	1

Which type of logic gate gives the above given truth table?

Ans

- ☒ A. 3 input NOR gate
☒ B. 2 input OR gate
☒ C. 3 input XNOR gate
☒ D. 3 input OR gate

Question ID : 75322914113

Status : Answered

Chosen Option : D

Q.139 What type of heating method is considered in high frequency heating?

Ans

- ☒ A. Direct arc heating
☒ B. Direct resistance heating
☒ C. Indirect arc heating
☒ D. Core type induction heating

Question ID : 75322914066

Status : Answered

Chosen Option : D

Q.140 Which type of losses take place in a DC generator when the current flows through the winding?

- Ans
- ☒ A. Core losses
 - ☒ B. Copper losses
 - ☒ C. Eddy current losses
 - ☒ D. Stray losses

Question ID : 75322914078

Status : Answered

Chosen Option : B

Q.141 Which of the following actions is required to be performed when burning of the contact of bulk oil circuit breaker is too light?

- Ans
- ☒ A. Remove the burned beads and polish the surface.
 - ☒ B. Replace the tips and arcing ring with a new set.
 - ☒ C. Dismantle the chamber and replace the burned/damaged parts.
 - ☒ D. Nothing must be done because light burning does not affect the circuit breaker.

Question ID : 75322914050

Status : Answered

Chosen Option : A

Q.142 In a step up transformer when power is transferred from a primary winding to another winding then which parameter does NOT change?

- Ans
- ☒ A. Frequency
 - ☒ B. Voltage
 - ☒ C. Phase angle
 - ☒ D. Current

Question ID : 75322913993

Status : Answered

Chosen Option : A

Q.143 What is the minimum factor of safety for wooden supports as per the CEA (Central Electricity Authority) Regulations, 2010?

- Ans
- ☒ A. 2.0
 - ☒ B. 2.5
 - ☒ C. 1.5
 - ☒ D. 3.0

Question ID : 75322914055

Status : Answered

Chosen Option : C

Q.144 What is the no-load terminal voltage of a single-phase transformer with a voltage regulation of 4% has a secondary terminal voltage of 115.4 V at full load current?

- Ans
- ☒ A. 130 V
 - ☒ B. 110 V
 - ☒ C. 124.6 V
 - ☒ D. 120 V

Question ID : 75322913995

Status : Answered

Chosen Option : D

Q.145 What kinds of basic approaches can contribute to the efficiency of an organization by making everyone skilled?

- Ans
- ☒ A. System approach
 - ☒ B. Modern organisation theory
 - ☒ C. Classical
 - ☒ D. Neo classical

Question ID : 75322914029

Status : Answered

Chosen Option : B

Q.146 Which of the following statements related to three-phase squirrel cage induction motor is INCORRECT?

Ans ☒ A. Rugged design less complex

☒ B. High starting torque

☒ C. Low cost

☒ D. Low maintenance

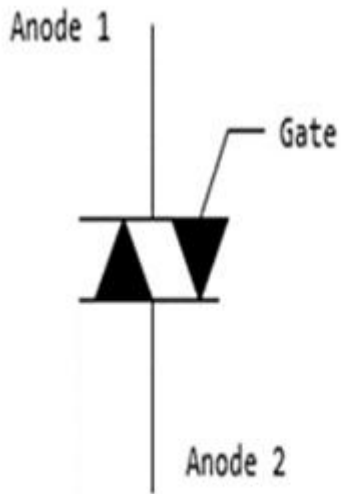
Question ID : 75322914093

Status : Answered

Chosen Option : B



Q.147



Identify the device symbol shown in the given figure.

Ans

- ☒ A. IGBT
- ☒ B. BJT
- ☒ C. Thyristor
- ☒ D. TRIAC

Question ID : 75322914114

Status : Answered

Chosen Option : D

Q.148 Which of the following motors is most suitable for use in a domestic food mixer?

- Ans** ☒ A. Three-phase synchronous motor
☒ B. Induction motor
☒ C. DC shunt motor
☒ D. Universal motor

Question ID : **75322914046**

Status : **Answered**

Chosen Option : **D**

Q.149 Energy gap is _____ in crystalline insulator as compared to semiconductor.

- Ans** ☒ A. very high
☒ B. much larger
☒ C. much lesser
☒ D. very small

Question ID : **75322914076**

Status : **Answered**

Chosen Option : **B**

Q.150 Which of the following coloured lights represent 'cool' lighting?

- Ans** ☒ A. Blues and greens
☒ B. White and greens
☒ C. White and blues
☒ D. Red and orange

Question ID : **75322914058**

Status : **Answered**

Chosen Option : **A**

Section : **General Knowledge and Awareness**

Q.1 At the Tokyo Summer Olympics 2020, players of which country were banned by the World Anti-Doping Agency from using their country's name, flag and anthem?

- Ans**
- ☒ A. Pakistan
 - ☒ B. Russia
 - ☒ C. The US
 - ☒ D. China

Question ID : 75322914120

Status : Answered

Chosen Option : A

Q.2 Which of the following is the largest and deepest ocean on Earth?

- Ans**
- ☒ A. Atlantic Ocean
 - ☒ B. Mediterranean Ocean
 - ☒ C. Pacific Ocean
 - ☒ D. Indian Ocean

Question ID : 75322914125

Status : Answered

Chosen Option : C

Q.3 Diamond, the hardest naturally occurring substance, is an allotrope of:

- Ans**
- ☒ A. Aluminium (Al)
 - ☒ B. Zinc (Zn)
 - ☒ C. Carbon (C)
 - ☒ D. Iron (Fe)

Question ID : 75322914130

Status : Answered

Chosen Option : C

Q.4 Who is presently (as of December 2021) the Women and Child Development Minister, Government of India?

- Ans** ☒ A. Nirmala Sitharaman
☒ B. Smriti Irani
☒ C. Uma Bharti
☒ D. Maneka Gandhi

Question ID : 75322914118
Status : Answered
Chosen Option : B

Q.5 Hampi Dance Utsav, organised during the month of October and November, is one of the major tourist attractions of:

- Ans** ☒ A. Karnataka
☒ B. Kerala
☒ C. Andhra Pradesh
☒ D. Tamil Nadu

Question ID : 75322914122
Status : Answered
Chosen Option : A

Q.6 Whom did Mahatma Gandhi recognise as his political guru?

- Ans** ☒ A. Gopal Krishna Gokhale
☒ B. MG Ranade
☒ C. Dadabhai Naoroji
☒ D. Shrimad Rajchandra

Question ID : 75322914136
Status : Answered
Chosen Option : A

Q.7 _____ was the first and only woman Sultan of Delhi.

- Ans ☒ A. Kariba Begum
- ☒ B. Razia Sultan
- ☒ C. Sultan 'Mehr-un-Nissa'
- ☒ D. Mumtaz Mahal

Question ID : 75322914132

Status : Answered

Chosen Option : B

Q.8 As we move up in the stratosphere to stratopause, the temperature:

- Ans ☒ A. remains constant
- ☒ B. increases
- ☒ C. may increase or decrease
- ☒ D. decreases

Question ID : 75322914127

Status : Answered

Chosen Option : A

Q.9 In our solar system _____ is the fifth planet from the Sun.

- Ans ☒ A. Uranus
- ☒ B. Jupiter
- ☒ C. Mars
- ☒ D. Venus

Question ID : 75322914126

Status : Answered

Chosen Option : B

Q.10 Who is credited as the writer of the 'Arthashastra'?

- Ans
- ☒ A. Rishi Canak
 - ☒ B. Ashoka
 - ☒ C. Kautilya
 - ☒ D. Chandragupta

Question ID : 75322914135

Status : **Answered**

Chosen Option : C

Q.11 According to National Family Health Survey 2019-21 (NFHS-5), the average literacy rate of _____ is the lowest among all states in India.

- Ans
- ☒ A. Goa
 - ☒ B. Bihar
 - ☒ C. Assam
 - ☒ D. Andhra Pradesh

Question ID : 75322914117

Status : **Answered**

Chosen Option : B

Q.12 Ranakpur Jain temple of Rajasthan is a perfect example of which Indian architectural style.?

- Ans
- ☒ A. Kalinga architecture
 - ☒ B. Indo-Saracenic architecture
 - ☒ C. Māru-Gurjara architecture / Solanki style
 - ☒ D. Mughal architecture

Question ID : 75322914123

Status : **Not Answered**

Chosen Option : --

Q.13 Lovlina Borgohain, who won a bronze medal at the Tokyo Summer Olympics 2020, is associated with:

- Ans**
- ☒ A. sprint
 - ☒ B. shooting
 - ☒ C. badminton
 - ☒ D. boxing

Question ID : 75322914119

Status : **Answered**

Chosen Option : **D**

Q.14 Which of the following in the Constitution of India has been taken from the Constitution of Germany?

- Ans**
- ☒ A. The concept of 'procedure established by law'
 - ☒ B. Impeachment of the President
 - ☒ C. Fundamental duties
 - ☒ D. The suspension of Fundamental Rights during the emergency

Question ID : 75322914133

Status : **Answered**

Chosen Option : **D**

Q.15 The first Pradhanacharya of Brahmo Samaj, which started monotheistic reformist movement in India, was:

- Ans**
- ☒ A. Ramakrishna Paramhans
 - ☒ B. Raja Ram Mohan Roy
 - ☒ C. Swami Vivekanand
 - ☒ D. Ishwar Chandra Vidyasagar

Question ID : 75322914131

Status : **Answered**

Chosen Option : **B**

Q.16 Which of the following is an example of a noble gas element?

- Ans ☒ A. Helium
☒ B. Nitrogen
☒ C. Bromine
☒ D. Fluorine

Question ID : 75322914128

Status : Answered

Chosen Option : A

Q.17 The Charter of _____ by Charles II can be treated as the first provision enabling the East India Company to exercise judicial powers on Indian soil.

- Ans ☒ A. 1641
☒ B. 1600
☒ C. 1691
☒ D. 1661

Question ID : 75322914121

Status : Answered

Chosen Option : B

Q.18 Which Schedule of the Constitution of India contains the anti-defection law?

- Ans ☒ A. 3rd
☒ B. 7th
☒ C. 12th
☒ D. 10th

Question ID : 75322914134

Status : Answered

Chosen Option : D

Q.19 In economics, the current ratio is calculated by dividing:

- Ans**
- ☒ A. net expenditure by current assets
 - ☒ B. total income by total expenditure
 - ☒ C. net income by current liabilities
 - ☒ D. current assets by current liabilities

Question ID : **75322914124**

Status : **Answered**

Chosen Option : **D**

Q.20 Which of the following is NOT a primary macronutrient for plants?

- Ans**
- ☒ A. Magnesium (Mg)
 - ☒ B. Potassium (K)
 - ☒ C. Zinc (Zn)
 - ☒ D. Calcium (Ca)

Question ID : **75322914129**

Status : **Answered**

Chosen Option : **D**

Section : **Reasoning**



Q.1 'A & B' means 'A is the father of B'
'A @ B' means 'A is the husband of B'
'A + B' means 'A is the daughter of B'
'A # B' means 'A is the mother of B'

If W @ K + M @ C # R & N, then how is K related to N?

- Ans ☐ A. Sister's husband
☐ B. Sister's father
☐ C. Father's mother
☒ D. Father's sister

Question ID : 75322914149

Status : Answered

Chosen Option : D

Q.2 Select the correct water image of the given combination.

R E \$ @ 5 A ?

Ans

- ☐ A. R E \$ @ 2 A ?
☒ B. R E \$ @ 2 A ?
☐ C. R E \$ @ 2 A ?
☐ D. R E \$ @ 5 A ?

Question ID : 75322914155

Status : Answered

Chosen Option : B

Q.3 Srija, Kriti, Yuvi, Maunami, Preet and Sahaj are sitting in a line facing towards the south. Preet is sitting at one of the ends. Maunami is to the immediate right of Sahaj. Only Yuvi is sitting between Kriti and Srija. Srija is third to the right of Preet. Preet is not adjacent to Sahaj.

Who is sitting second to the left of Sahaj?

- Ans** ☒ A. Preet
☒ B. Yuvi
☒ C. Kriti
☒ D. Srija

Question ID : 75322914138

Status : **Answered**

Chosen Option : D

Q.4 Sam walks 150 m from his home towards the north and reaches an ATM. From there, he turns right and walks 180 m. Then, he turns left and walks 150 m. He finally turns left and walks 260 m to reach a park. What is the shortest distance between the park and the ATM?

- Ans** ☒ A. 185 m
☒ B. 210 m
☒ C. 160 m
☒ D. 170 m

Question ID : 75322914147

Status : **Answered**

Chosen Option : D

Q.5 What approximate value should come in place of the question mark (?) in the following equation?

$$(61.9889 + 17.997) \div 7.9989 + 39.9696 \times 4.996 - 117.002 \times 1.006 = ?$$

Ans ☒ A. 93

☐ B. 107

☐ C. 99

☐ D. 90

Question ID : 75322914152

Status : Answered

Chosen Option : D

Q.6 P, Q, R, S, T and U are sitting in a straight line, all facing the north. Only 3 persons are sitting between Q and P. U is second to the left of T. R is second to the right of T. P is second to the right of S. Q is second to the left of S. S is sitting between U and T.

Who is sitting third to the left of R?

Ans ☒ A. S

☐ B. Q

☐ C. U

☐ D. T

Question ID : 75322914137

Status : Answered

Chosen Option : A

Q.7 In a class of 70 students, Ravi scores more marks than only 24 students. Vritti scores less marks than only 15 students. How many students score more marks than Ravi but less marks than Vritti?

Ans  A. 30

 B. 28

 C. 29

 D. 31

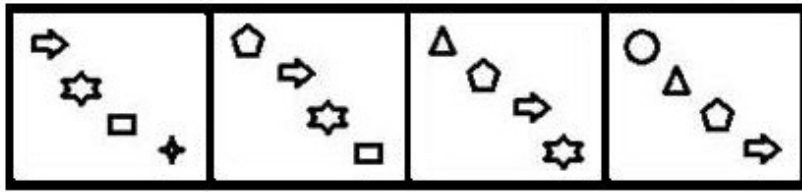
Question ID : **75322914139**

Status : **Answered**

Chosen Option : **C**

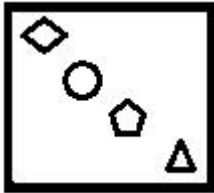


Q.8 Select the figure that will come next in the following figure series.

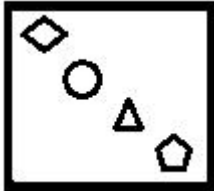


Ans

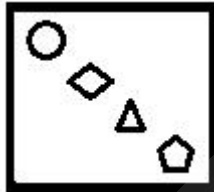
✗ A.



✓ B.



✗ C.



✗ D.



Question ID : 75322914154

Status : Answered

Chosen Option : B

Q.9 If $M > K > O < P$ and $U < K = Z > D$, then which of the following conclusions is NOT correct?

- Ans ☒ A. $O > Z$
☒ B. $K > D$
☒ C. $U < M$
☒ D. $M > O$

Question ID : 75322914142

Status : Answered

Chosen Option : A

Q.10 Study the following arrangement of letters, symbols and numbers and answer the question that follows.

P 3 @ # 7 S 1 4 & # Z B 2 & 5 % Y 3 & P 3 8 N & @ & U N 3 \$ & X Y 1 3 &

Which of the following is the third term to the left of the twenty-second term from the left end?

- Ans ☒ A. X
☒ B. #
☒ C. &
☒ D. Z

Question ID : 75322914141

Status : Answered

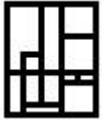
Chosen Option : C

Q.11 Select the option in which the given figure is embedded (rotation is NOT allowed).



Ans

☒ A.



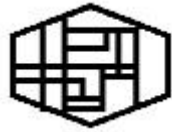
☒ B.



☒ C.



☒ D.



Question ID : 75322914156

Status : Answered

Chosen Option : C

Q.12 In a code language, WITNESS is written as 80. How will SAMARITAN be written in that language?

Ans

☒ A. 181

☒ B. 132

☒ C. 147

☒ D. 165

Question ID : 75322914146

Status : Answered

Chosen Option : C

Q.13 Pointing to the photograph of a boy, Nikhil said, “He is my daughter’s mother’s father-in-law’s only son’s sister’s son.” How is that boy’s mother’s father related to Nikhil?

- Ans** ☒ A. Paternal grandfather
☒ B. Maternal uncle
☒ C. Father
☒ D. Paternal uncle

Question ID : 75322914148

Status : Answered

Chosen Option : C

Q.14 Select the correct option that indicates the arrangement of the given words in the order in which they appear in an English dictionary.

1. Minister
2. Miniscule
3. Miniature
4. Minute
5. Mistress

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

Question ID : 75322914143

Status : Answered

Chosen Option : D

Q.15 Select the number from among the given options that can replace the question mark (?) in the following series.

19, 26, 37, 50, 67, ?, 109

Ans ☒ A. 86

☒ B. 96

☒ C. 91

☒ D. 80

Question ID : 75322914151

Status : Answered

Chosen Option : A

Q.16 Which two numbers need to be interchanged to make the given equation correct?

$$24 + 96 - 36 \div 6 \times 18 = 108$$

Ans ☒ A. 24 and 18

☒ B. 24 and 96

☒ C. 18 and 96

☒ D. 6 and 18

Question ID : 75322914153

Status : Answered

Chosen Option : D

Q.17 In a code language, BRIGADE is written as HGDJLUE. How will CROSSING be written in that language?

Ans ☒ A. GQMVVRBE

☒ B. GQKVVRUE

☒ C. JQLUURUE

☒ D. JQLVVRUE

Question ID : 75322914145

Status : Answered

Chosen Option : D

Q.18 Select the option that is related to the third word in the same way as the second word is related to the first word.

Ecstatic : Happy :: Garrulous : ?

- Ans ☒ A. Talkative
☒ B. Spendthrift
☒ C. Angry
☒ D. Emotional

Question ID : 75322914150
Status : Answered
Chosen Option : A

Q.19 नीचे दी गई श्रृंखला में ऐसे कितने B हैं, जिनके ठीक पहले एक अंक है और ठीक बाद एक प्रतीक है?

N F T 4 % B U 5 B D 4 B # 4 9 * Y 8 B N # % B D 4 \$ 2 B 7 B @ C V B \$ * N 1 B \$ E

- Ans ☒ A. 3
☒ B. 4
☒ C. 5
☒ D. 2

Question ID : 75322914144
Status : Answered
Chosen Option : D



Q.20 Six activities, mime, song, dance, quiz, debate and drama, are each held on one of the six different days of a week, except Sunday. Drama is held on Tuesday. Song is held on the next day of mime. Dance is on the day just before Debate. Quiz is on Monday. Mime is neither on Wednesday nor on Thursday. Which activity is held on Saturday?

- Ans**
- ☒ A. Mime
 - ☒ B. Debate
 - ☒ C. Dance
 - ☒ D. Song

Question ID : 75322914140
Status : Answered
Chosen Option : D

Section : General Hindi

Q.1 'शाप' का विलोम क्या होगा?

- Ans**
- ☒ A. अभिशाप
 - ☒ B. वरदान
 - ☒ C. शीतल
 - ☒ D. पाप

Question ID : 75322914166
Status : Answered
Chosen Option : B

Q.2 'विहान' किसका पर्यायवाची शब्द है?

- Ans**
- ☒ A. शाम
 - ☒ B. रात
 - ☒ C. दिन
 - ☒ D. सुबह

Question ID : 75322914165
Status : Answered
Chosen Option : D

Q.3 उसने कुछ नहीं खाया। यहाँ प्रयुक्त 'कुछ' किस प्रकार का सर्वनाम है?

- Ans
- ☒ A. निजवाचक
 - ☒ B. प्रश्नवाचक
 - ☒ C. निश्चयवाचक
 - ☒ D. अनिश्चयवाचक

Question ID : 75322914160

Status : Answered

Chosen Option : D

Q.4 'कदाचित् इस गाड़ी में मेरा भाई आता हो।' वाक्य में कौन सा काल है?

- Ans
- ☒ A. सामान्य भविष्यत्
 - ☒ B. संभाव्य वर्तमान
 - ☒ C. संदिग्ध वर्तमान
 - ☒ D. सामान्य वर्तमान

Question ID : 75322914158

Status : Answered

Chosen Option : C

Q.5 'खाना किसी का, एहसान किसी का' अर्थ के लिए उपयुक्त लोकोक्ति कौन सी है?

- Ans
- ☒ A. नानी के टुकड़े खावे, दादी का पोता कहावे
 - ☒ B. नानी काँरी मर गई, नाती के नौ-नौ ब्याह
 - ☒ C. नाक कटी पर घी तो चाटा
 - ☒ D. नानी के आगे ननिहाल की बातें

Question ID : 75322914164

Status : Answered

Chosen Option : A

Q.6 निजवाचक 'आप' को क्या माना जाता है?

- Ans
- ☒ A. उत्तम पुरुषवाचक
 - ☒ B. अन्य पुरुषवाचक
 - ☒ C. सर्व-पुरुषवाचक
 - ☒ D. मध्यम पुरुषवाचक

Question ID : 75322914162

Status : Answered

Chosen Option : D

Q.7 निम्नलिखित में से कौन सा विकल्प 'अन्यपुरुष' है?

- Ans
- ☒ A. तुम
 - ☒ B. हम
 - ☒ C. वे
 - ☒ D. मैं

Question ID : 75322914161

Status : Answered

Chosen Option : C

Q.8 'श्रीगणेश करना' मुहावरे का सही अर्थ क्या है?

- Ans
- ☒ A. आरंभ करना
 - ☒ B. अंत करना
 - ☒ C. चटकर जाना
 - ☒ D. लूटना

Question ID : 75322914163

Status : Answered

Chosen Option : A

Q.9 'पंकज कल ट्रेन से दिल्ली जाएगा।' वाक्य में कौन सा काल है?

- Ans
- ☒ A. संभाव्य वर्तमान
 - ☒ B. संभाव्य भविष्यत्
 - ☒ C. संदिग्ध वर्तमान
 - ☒ D. सामान्य भविष्यत्

Question ID : 75322914157

Status : Answered

Chosen Option : D

Q.10 'जरा' किस प्रकार का परिमाणवाचक क्रियाविशेषण है?

- Ans
- ☒ A. न्यूनताबोधक
 - ☒ B. श्रेणिवाचक
 - ☒ C. पर्याप्तिवाचक
 - ☒ D. तुलनावाचक

Question ID : 75322914159

Status : Answered

Chosen Option : A

