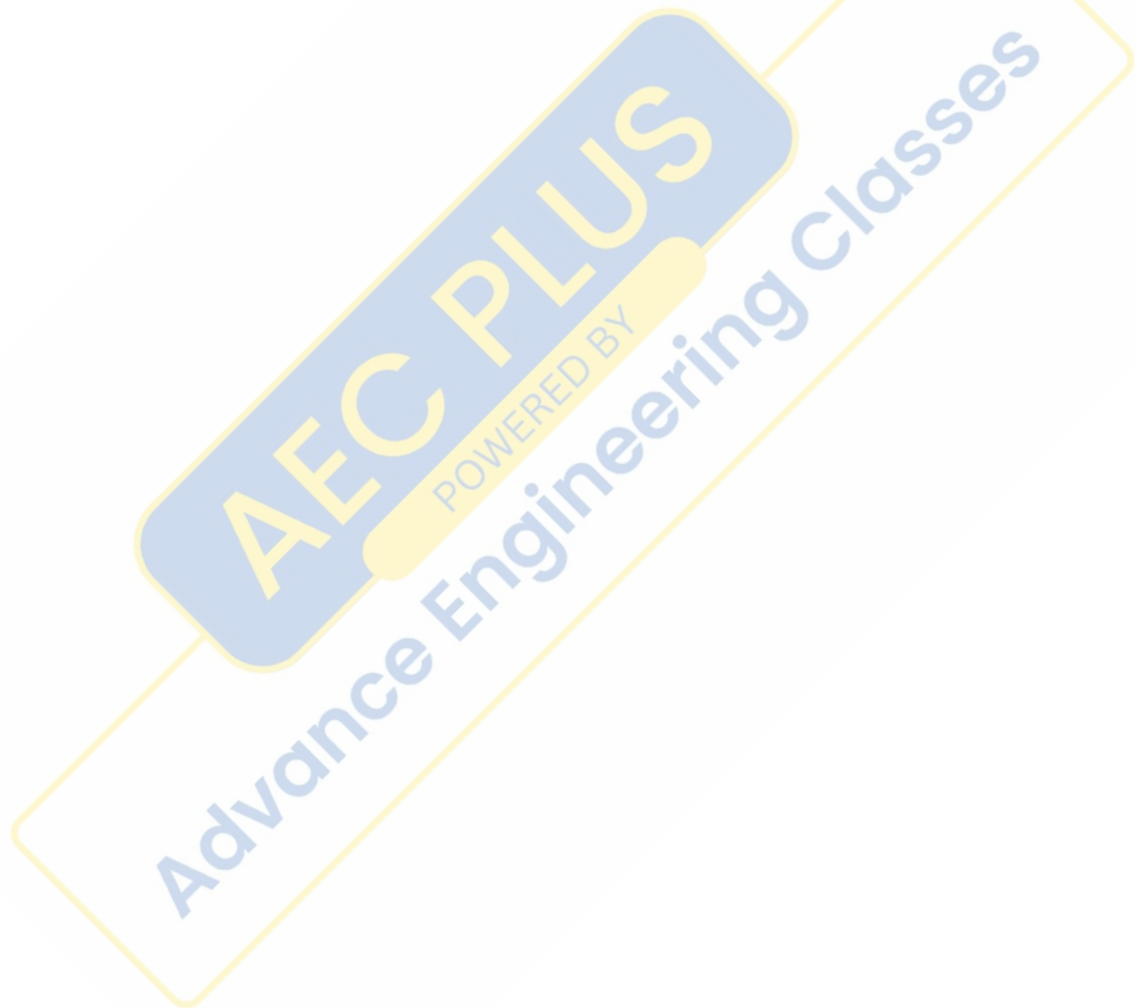


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**Previous Year Paper  
Electrical 8 Sept 2021  
(Shift 1)**





# Uttar Pradesh Power Corporation Limited

Electricity Service Commission, Uttar Pradesh Power Corporation Ltd. S.L.D.C campus, near Mantri Awas, Vibhuti Khand Phase-2, Gomti Nagar, Lucknow-226010

Participant ID	
Participant Name	
Test Center Name	iON Digital Zone iDZ Omaxe City
Test Date	08/09/2021
Test Time	9:00 AM - 12:00 PM
Subject	Junior Engineer (Trainee) Electrical

Section : Domain Knowledge

Q.1 Which of the following is NOT the correct point to be considered in designing a good lightning scheme?

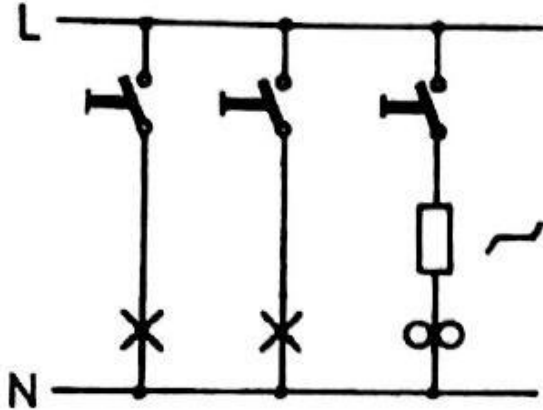
- Ans
- A. The intensity of illumination required.
  - B. The selection of the required lamp and fitting.
  - C. The temperature of the room.
  - D. The size of the room.

Question ID : 9277592228

Status : Answered

Chosen Option : C

Q.2



The above given diagram is an example of:

- Ans
- A. Multiline wiring diagram.
  - B. Schematic diagram.
  - C. Intermediate diagram.
  - D. Outlet diagram.

Question ID : 9277592219

Status : Answered

Chosen Option : B

Q.3 \_\_\_\_\_ in Boolean algebra is similar to addition in ordinary algebra.

- Ans
- A. AND operation
  - B. NOT operation
  - C. NAND operation
  - D. OR operation

Question ID : 9277592179

Status : Answered

Chosen Option : D

Q.4 Which of the following is NOT one of the analog to digital (A/D) conversion techniques?

- Ans
- A. Single slope integration method
  - B. Successive approximation method
  - C. Voltage to-time conversion method
  - D. Voltage to frequency conversion method

Question ID : 9277592166

Status : Answered

Chosen Option : A

Q.5 Figure-out the INCORRECT type of mode used in distributed control system from the options given below:

- Ans  A. Computer mode.  
 B. Semi-Automatic.  
 C. Manual.  
 D. Auto.

Question ID : 9277592211  
Status : Answered  
Chosen Option : A

Q.6 If the power factor is \_\_\_\_\_, the voltage at the sending end is less than that at the receiving end in short line. Hence voltage regulation is negative.

- Ans  A. zero  
 B. unity  
 C. lagging  
 D. leading

Question ID : 9277592260  
Status : Answered  
Chosen Option : C

Q.7 The transmission which uses 3 phase 3 wire system and is called high voltage transmission. This Transmission system is also called as \_\_\_\_\_.

- Ans  A. Eliminative transmission.  
 B. Primary transmission.  
 C. Feeder transmission.  
 D. Secondary transmission.

Question ID : 9277592256  
Status : Answered  
Chosen Option : B

Q.8 Which of the following logic functions is used for load connecting a "NOT" contact to the left-hand bus bar?

- Ans  A. NOT  
 B. LD NOT  
 C. LD  
 D. AND NOT

Question ID : 9277592210  
Status : Answered  
Chosen Option : B

Q.9 Which of the following is NOT the reason why mechanical handling of coal is preferred over manual handling in a steam power plant?

- Ans
- A. Can be easily started and can be economically adjusted according to the need.
  - B. Less labour is required.
  - C. Operation is easy and smooth.
  - D. Capital cost of the preferred handling system is low.

Question ID : 9277592235  
Status : Answered  
Chosen Option : A

Q.10 The alternating magnetic flux in a conductor caused by the current flowing in a neighbouring conductor gives rise to circulating currents, which causes an apparent increase in the resistance of a conductor. This phenomenon is called the \_\_\_\_\_.

- Ans
- A. surrogacy effect
  - B. skin effect
  - C. spirality effect
  - D. proximity effect

Question ID : 9277592261  
Status : Answered  
Chosen Option : D

Q.11 A 5.0 ampere ammeter has a resistance of  $0.01\Omega$ . Determine the efficiency of the instrument.

- Ans
- A. 2 A/W
  - B. 20 A/W
  - C. 25.01 A/W
  - D. 10 A/W

Question ID : 9277592159  
Status : Answered  
Chosen Option : B

Q.12 Air-break circuit breakers are used in DC. circuits and AC circuits \_\_\_\_\_, where air at atmospheric pressure is used.

- Ans
- A. for 220 kV and above
  - B. above 760 kV
  - C. up to 12 kV
  - D. for 33 kV and above

Question ID : 9277592277  
Status : Answered  
Chosen Option : C

Q.13 Which of the following is INCORRECT with regard to the foremost properties of materials used for preparing resistances for precision measurement work?

- Ans
- A. Robust construction
  - B. Cheapness
  - C. High thermo-electric e.m.f. with copper
  - D. Small temperature co-efficient

Question ID : 9277592158  
Status : Answered  
Chosen Option : C

Q.14 \_\_\_\_\_ is one type of switch, the contacts of which are opened or closed by the position of mercury placed in a tube.

- Ans
- A. Selector switch
  - B. Shift switch
  - C. Intermediate switch
  - D. Float switch

Question ID : 9277592231  
Status : Answered  
Chosen Option : C

Q.15 Which of the following is NOT used as an insulation medium in a transformer?

- Ans
- A. Wood-based lamination
  - B. Insulating thread
  - C. Insulating paper
  - D. Insulating oil

Question ID : 9277592191  
Status : Answered  
Chosen Option : A

Q.16 Which of the following is NOT a disadvantage of HVDC transmission system?

- Ans
- A. The short circuit current required is high when compared to AC systems.
  - B. Ripples and harmonics are generated when AC is converted into DC.
  - C. Reactive power cannot be transmitted through a DC line.
  - D. Voltage cannot be stepped up.

Question ID : 9277592265  
Status : Answered  
Chosen Option : A

Q.17 Single phase full-wave controlled rectifier is also called:

- Ans  A. double SCR rectifier  
 B. one SCR rectifier  
 C. two quadrant converter  
 D. one quadrant converter

Question ID : 9277592200  
Status : Answered  
Chosen Option : C

Q.18 Which of the following types of starters are used in DC shunt motors?

- Ans  A. Two point starters  
 B. Five point starters  
 C. Pointless starters  
 D. Four point starters

Question ID : 9277592195  
Status : Answered  
Chosen Option : D

Q.19 Which of the following instruments use the Hall effect?

- Ans  A. Integrating meters  
 B. Watt meters  
 C. Voltmeters  
 D. Flux meters

Question ID : 9277592160  
Status : Answered  
Chosen Option : D

Q.20 \_\_\_\_\_ are used to detect the occurrence of external events. It is a retentive type of instruction and can be reset to zero using the reset (RES) instruction.

- Ans  A. Base instructions  
 B. Counter instructions  
 C. Bit instructions  
 D. Call instructions

Question ID : 9277592291  
Status : Answered  
Chosen Option : D

Q.21 Which of the following materials is NOT employed for transmission lines?

- Ans  A. Copper weld materials  
 B. Carbon core tantalum  
 C. Galvanized iron  
 D. Steel core copper

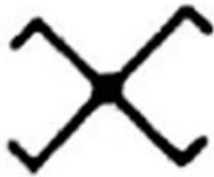
Question ID : 9277592171  
Status : Answered  
Chosen Option : C

Q.22 Effect of capacitance on performance of the short transmission lines is extremely small due to \_\_\_\_\_

- Ans
- A. Smaller length and high operating voltage.
  - B. Low Operating voltage and smaller length.
  - C. Low Operating voltage and high charging current.
  - D. Larger length and low operating voltage.

Question ID : 9277592255  
Status : Answered  
Chosen Option : A

Q.23



The given symbol belongs to which of the following 'switch and switch outlets'?

- Ans
- A. Intermediate switch
  - B. Two way switch
  - C. Two way bell push
  - D. Two-pole one way switch

Question ID : 9277592218  
Status : Answered  
Chosen Option : A

Q.24 Which of the following is the disadvantage of 'flux control method' (one of the speed control methods) of a DC shunt motor?

- Ans
- A. It provides slightly complex control.
  - B. As the field current is small the size of the rheostat required is small.
  - C. The speed control below normal rated speed is not possible.
  - D. Power loss in the external resistance is very high.

Question ID : 9277592193  
Status : Answered  
Chosen Option : C

Q.25 Which type of fuses from the following are used in control circuits?

- Ans
- A. Rewirable fuses
  - B. Cartridge fuses
  - C. Copper wire fuses
  - D. Kit-kat fuses

Question ID : 9277592230  
Status : Marked For Review  
Chosen Option : B



Q.26 \_\_\_\_\_ is the symbol used for shunt conductance (one of the parameters of electric transmission line conductor).

- Ans
- A. C
  - B. G
  - C. L
  - D. R

Question ID : 9277592259  
Status : Answered  
Chosen Option : B

Q.27 Magnetising force which is necessary to neutralise completely the magnetism is an electromagnet after the value of magnetising force becomes zero.

The given statement is true for:

- Ans
- A. ductility
  - B. coercive force
  - C. absolute permeability
  - D. magnetic hysteresis

Question ID : 9277592176  
Status : Answered  
Chosen Option : B

Q.28 Which of the following is NOT an advantage of nuclear power plants?

- Ans
- A. They give better performance at high load factors (80 percent to 90 percent)
  - B. They are well suited to meet large power demands.
  - C. It needs less space as compared to other conventional power plants of equal size.
  - D. These plants can be operated at varying load efficiently.

Question ID : 9277592249  
Status : Answered  
Chosen Option : A

Q.29 \_\_\_\_\_ is NOT a type of passive transducer.

- Ans
- A. Inductive transducer
  - B. Capacitive transducer
  - C. Thermocouple transducer
  - D. Resistive transducer

Question ID : 9277592155  
Status : Answered  
Chosen Option : C

Q.30 Which of the following is NOT one of the tips/methods while using washing machine to save energy?

- Ans  A. Use the correct amount of detergent.  
 B. Never wash with full loads.  
 C. Use optimal quantity of water.  
 D. Use hot water only for very dirty clothes.

Question ID : 9277592270  
Status : Answered  
Chosen Option : D

Q.31 Which of the following is NOT one of the advantages of tidal power generation?

- Ans  A. Large area of valuable land is not required.  
 B. As compared to other sources of energy, this is economical.  
 C. It is completely independent of the precipitation and its uncertainty, besides being inexhaustible.  
 D. It is free from pollution.

Question ID : 9277592251  
Status : Answered  
Chosen Option : A

Q.32



The above symbol belongs to which below listed switchgear:

- Ans  A. Circuit breaker.  
 B. Open link.  
 C. Three-pole switch, line representation.  
 D. Link.

Question ID : 9277592216  
Status : Marked For Review  
Chosen Option : A

Q.33 Barbed wire is wrapped on poles at a height of about 2.5 m from the ground for at least 1 metre.

The above statement is true for:

- Ans  A. danger sign boards  
 B. guys (stays) and the associated arrangement  
 C. pro-danger sign boards  
 D. anticlimbing devices

Question ID : 9277592226  
Status : Answered  
Chosen Option : D

Q.34 Which of the following is NOT the correct type of timer instruction available with SLC 500 based systems?

- Ans
- A. RTO timer
  - B. RES timer
  - C. TOF timer
  - D. TON timer

Question ID : 9277592290  
Status : Not Answered  
Chosen Option : --

Q.35 Which of the following is NOT the correct preventive measures to be applied for homes?

- Ans
- A. Ensure pins of your plugs are loose enough for proper inserting.
  - B. Provide proper earthing for the building/house.
  - C. Allow only qualified persons to attend to your electrical repairs.
  - D. Use switches of the correct current rating.

Question ID : 9277592271  
Status : Answered  
Chosen Option : A

Q.36 The mechanical heart of a diesel engine is the \_\_\_\_\_.

- Ans
- A. air intake system
  - B. exhaust system
  - C. fuel injection system
  - D. engine starting system

Question ID : 9277592239  
Status : Answered  
Chosen Option : D

Q.37 Which of the following is NOT the salient feature of thermistors?

- Ans
- A. Thermistors when properly aged, have good stability.
  - B. Thermistors are smooth.
  - C. Thermistors are compact.
  - D. Thermistors are inexpensive.

Question ID : 9277592164  
Status : Answered  
Chosen Option : D

Q.38 Which of the following conventional methods of laying underground cables is NOT used nowadays?

- Ans  A. Laying cables on racks and cleats  
 B. Laying in troughs  
 C. Drawing into pipes or ducts  
 D. Laying directly in the ground

Question ID : 9277592227  
Status : Answered  
Chosen Option : D

Q.39 An inverter is NOT a \_\_\_\_\_.

- Ans  A. generator  
 B. converter  
 C. device with no moving part  
 D. static device

Question ID : 9277592202  
Status : Answered  
Chosen Option : A

Q.40 Select the correct statement for DC ceiling fans.

- Ans  A. DC motor fans have less speed options than AC motor fans.  
 B. DC fans are less efficient than AC fans.  
 C. DC motor fans use more energy than standard AC fans.  
 D. DC motor fans are less noisy.

Question ID : 9277592190  
Status : Answered  
Chosen Option : D

Q.41 Which of the following is NOT an advantage of hydro-electric plants?

- Ans  A. It takes few minutes to run and synchronise the plant.  
 B. Running cost of the plant is low.  
 C. It takes considerably less time for the erection of such plants.  
 D. It is highly reliable.

Question ID : 9277592244  
Status : Answered  
Chosen Option : C

Q.42 \_\_\_\_\_ is used as an electric insulator.

- Ans  A. Leather  
 B. Rubber  
 C. Plastics  
 D. Asbestos

Question ID : 9277592169  
Status : Marked For Review  
Chosen Option : D

Q.43 The insulation provided to underground cables should NOT have \_\_\_\_\_.

- Ans  A. low thermal coefficient  
 B. high viscosity at working temperature  
 C. low absorption of moisture  
 D. high resistivity

Question ID : 9277592269  
Status : Answered  
Chosen Option : B

Q.44 Which is not most commonly used display in the digital electronics field?

- Ans  A. Micro-phoretic image display  
 B. Incandescent display  
 C. Liquid vapour display  
 D. Gas discharge plasma display

Question ID : 9277592180  
Status : Answered  
Chosen Option : A

Q.45 Which of the following is NOT one of the fields of application of photoelectric cell?

- Ans  A. Street lightning  
 B. Reproduction of light in motion picture  
 C. Burglar arms  
 D. Counting machines

Question ID : 9277592172  
Status : Not Attempted and Marked For Review  
Chosen Option : --

Q.46 Which of the following is NOT one of the logic functions of PLC programming?

- Ans  A. YES  
 B. NOT  
 C. INHIBITION  
 D. NOD

Question ID : 9277592208  
Status : Answered  
Chosen Option : A

Q.47 Which of the following statements is true for overcurrent protection of transmission lines?

- Ans  A. It is applied as main protection for distribution lines and back-up for main lines, where protection is of distance type.
- B. It is used where length of transmission line is long and simultaneous opening of circuit-breakers at both ends is necessary.
- C. It is faster than other protection methods.
- D. It is used for important lines of relatively shorter length.

Question ID : 9277592279

Status : Answered

Chosen Option : A

Q.48 In a D.C. motor, \_\_\_\_\_ is also known as electrical characteristics.

- Ans  A. Torque-Flux characteristics.
- B. Speed-Armature current characteristics.
- C. Speed-Torque characteristics
- D. Torque-Armature current characteristics

Question ID : 9277592194

Status : Answered

Chosen Option : C

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Q.49 Which of the following symbols belongs to bracket fan?

Ans

A.



B.



C.



D.



Question ID : 9277592214

Status : Marked For Review

Chosen Option : D

Q.50 Which of the following is a FALSE statement?

Ans

A. The basic thermodynamic cycle on which the gas turbine is based is the joule cycle.

B. The working fluid in the Rankine cycle may be water, mercury, low boiling substance.

C. The most efficient power generation systems in commercial service are Rankine cycle plants with power to fuel energy efficiencies more than 54%.

D. Rankine cycle is the thermodynamic cycle for steam power generation.

Question ID : 9277592233

Status : Answered

Chosen Option : C

Q.51 The rectifier that uses only diodes and the DC output voltage is fixed in amplitude by the amplitude of the AC supply is known as:

- Ans
- A. half controlled rectifier
  - B. uncontrolled rectifier
  - C. percent controlled rectifier
  - D. fully controlled rectifier

Question ID : 9277592198  
Status : Answered  
Chosen Option : A

Q.52 Which of the following is NOT one of the components of 'Programmable Logic Controller'?

- Ans
- A. Battery
  - B. CPU
  - C. Memory
  - D. Microprocessor

Question ID : 9277592207  
Status : Not Attempted and Marked For Review  
Chosen Option : --

Q.53 The main drawback of \_\_\_\_\_ is that the accuracy in determining the mechanical power output of the DC motor is limited.

- Ans
- A. Hopkinson's test
  - B. direct method of testing
  - C. indirect method of testing
  - D. Swinburne's test

Question ID : 9277592192  
Status : Answered  
Chosen Option : B

Q.54 Which of the following is a renewable source of energy?

- Ans
- A. Natural gas
  - B. Coal
  - C. Wind
  - D. Nuclear energy

Question ID : 9277592304  
Status : Answered  
Chosen Option : C



Q.55 \_\_\_\_\_ is the mean square deviation, which is the same as 'Standard Deviation', except that square root is NOT extracted.

- Ans
- A. Precision index
  - B. Average deviation
  - C. Variance
  - D. Range

Question ID : 9277592156  
Status : Answered  
Chosen Option : C

Q.56 The dimensional formula  $M L^2 T^{-2}$  may NOT correspond to:

- Ans
- A. torque
  - B. energy
  - C. Work
  - D. momentum

Question ID : 9277592157  
Status : Answered  
Chosen Option : D

Q.57 With regard to the Energy Conservation Act, 2001, the full form of B.E.E. is:

- Ans
- A. Branch of Energy Efficiency
  - B. Board of Energy Efficiency
  - C. Bureau of Energy Efficiency
  - D. Bold and Efficient Energy

Question ID : 9277592272  
Status : Answered  
Chosen Option : C

Q.58 When two phase wires or one phase wire and the neutral wire make direct contact due to insulation breakdown, an exceedingly large current will flow in the circuit. This condition is called:

- Ans
- A. earth fault
  - B. overload current
  - C. short circuit
  - D. electric shock

Question ID : 9277592217  
Status : Answered  
Chosen Option : C

Q.59 Which of the following is NOT an advantage of gas turbine power plants over diesel power plants?

- Ans
- A. Capital cost considerably less
  - B. Good part load efficiency
  - C. Poor quality fuels can be used
  - D. Less space requirements

Question ID : 9277592240  
Status : Answered  
Chosen Option : D

Q.60 \_\_\_\_\_ is basically a static power electronics device which converts fixed DC voltage/power to variable DC voltage or power.

- Ans
- A. Chopper
  - B. Inverter
  - C. Integrator
  - D. Converter

Question ID : 9277592196  
Status : Answered  
Chosen Option : A

Q.61 Which of the following is said to be an external risk factor for an entrepreneur?

- Ans
- A. Technological risk
  - B. Employee risk
  - C. Innovation risk
  - D. Strategic risk

Question ID : 9277592275  
Status : Answered  
Chosen Option : D

Q.62 Which of the following methods of starting is required for induction motors of high rating?

- Ans
- A. Auto-transformer starters
  - B. Rotor resistance starters
  - C. Start delta starters
  - D. Direct on line starters

Question ID : 9277592221  
Status : Answered  
Chosen Option : A

Q.63 Which of the following systems is NOT used to distribute power to a consumer?

- Ans
- A. Three-phase ac supply using a 3-wire system.
  - B. Supply of three-phase and neutral using a 4-wire system.
  - C. Single-phase ac supply using a 2-wire system.
  - D. Single-phase ac supply using a 3-wire system.

Question ID : 9277592215  
Status : Answered  
Chosen Option : A

Q.64 Which of the following is NOT one of the advantages of electrical drives?

- Ans
- A. They have comparatively long life as compared to mechanical drives
  - B. It can be used at far off places which are not supplied by electric supply
  - C. High efficiency
  - D. Being compact, they require less space

Question ID : 9277592298  
Status : Answered  
Chosen Option : B

Q.65 Which of the following is NOT the correct match for assessing the total load of a building that should be adopted after deciding the number and type of outlets?

- Ans
- A. Incandescent light point - 60 watts
  - B. Light sockets (5A socket) - 100 watts
  - C. Ceiling fans - 100 watts
  - D. Power sockets (15 A socket) - 500 watts

Question ID : 9277592220  
Status : Answered  
Chosen Option : D

Q.66 The layout of a modern steam power plant does NOT comprise of which of the following circuits?

- Ans
- A. Water exit and flow circuit
  - B. Air and gas circuit
  - C. Cooling water circuit
  - D. Coal and ash circuit

Question ID : 9277592234  
Status : Answered  
Chosen Option : B

Q.67 Which of the following is an INCORRECT statement in terms of comparison of hydro-power stations with thermal power stations?

- Ans
- A. Hydro-power plants' design is simple compared to thermal power stations
  - B. Construction time required for hydro-power plants is far less compared to thermal power stations.
  - C. Hydro-power stations have long useful lives compared to thermal power stations.
  - D. Hydro-power stations are inexpensive compared to thermal power stations

Question ID : 9277592247  
Status : Answered  
Chosen Option : B

Q.68 \_\_\_\_\_ is used to store program codes.

- Ans
- A. Data memory
  - B. Executive memory
  - C. User memory
  - D. System memory

Question ID : 9277592289  
Status : Answered  
Chosen Option : B

Q.69 \_\_\_\_\_ is NOT included in battery charging system.

- Ans
- A. Inverter
  - B. Rectifier
  - C. A container for the batteries
  - D. Generator

Question ID : 9277592252  
Status : Answered  
Chosen Option : D

Q.70 Which of the following sector encourage small scale entrepreneurship and has minimum hurdles to market entry?

- Ans
- A. Manufacturing.
  - B. Industry sector.
  - C. Agriculture.
  - D. Services.

Question ID : 9277592274  
Status : Answered  
Chosen Option : B

Q.71 Which of the following statements is correct for the electrical conducting material, Tungsten?

- Ans
- A. It has the lowest resistance per unit weight.
  - B. It has the lowest resistance per unit volume.
  - C. It has the highest melting point among metals.
  - D. Its melting point is 657°C (pure)

Question ID : 9277592170  
Status : Answered  
Chosen Option : C

Q.72 \_\_\_\_\_ represents the major cause of fatigue, failure of conductor strands or of items associated with the support, use and protection of the conductor during high wind pressures.

- Ans
- A. Unbalance loading
  - B. Aeolian vibration
  - C. Galloping
  - D. Overloading

Question ID : 9277592297  
Status : Answered  
Chosen Option : C

Q.73 Which of the following is NOT one of the causes of insulator failure?

- Ans
- A. Mechanical stress
  - B. Flash over
  - C. Insulator glazing
  - D. Short circuit

Question ID : 9277592267  
Status : Answered  
Chosen Option : B

Q.74 Which is the correct formula for the efficiency of a short transmission line ( $\eta$  %)?

- Ans
- A.  $\eta \% = (\text{Power supplied} / \text{Power delivered} \times 100)$
  - B.  $\eta \% = (\text{Power delivered} / \text{Power supplied} \times 100)$
  - C.  $\eta \% = (\text{Power exhausted} / \text{Power delivered} \times 100)$
  - D.  $\eta \% = (\text{Power supplied} / \text{Power exhausted} \times 100)$

Question ID : 9277592254  
Status : Answered  
Chosen Option : B

Q.75 Super tension cables are generally used up to \_\_\_\_ kV.

Ans  A. 132

B. 33

C. 66

D. 11

Question ID : 9277592268

Status : **Marked For Review**

Chosen Option : C

Q.76 Which of the following is NOT one of the advantages of the combined cycle, i.e. 'combined gas turbine and diesel power plants'?

Ans  A. It gives high ratio of power output to occupied ground space.

B. The combined system offers forced manual feature.

C. Less cooling water requirement.

D. More suitable for rapid start and shut down.

Question ID : 9277592243

Status : **Answered**

Chosen Option : B

Q.77 Which of the following insulating materials is NOT used for cables?

Ans  A. Polyvinyl Chloride

B. Polyurethane

C. Paper

D. Vulcanized India Rubber

Question ID : 9277592225

Status : **Answered**

Chosen Option : B

Q.78 The \_\_\_\_\_ is mainly utilised for spreading the magnetic flux to avoid the field coil from falling.

Ans  A. commutator

B. yoke

C. brush

D. pole shoe

Question ID : 9277592186

Status : **Answered**

Chosen Option : B

Q.79 While making the choice of drive, which of the following factors is NOT considered?

- Ans  A. Drive machine temperature  
 B. Space available  
 C. Speed of driving and driven machines  
 D. Cost

Question ID : 9277592300  
Status : **Marked For Review**  
Chosen Option : A

Q.80 \_\_\_\_\_ is one of the type of electrical dust collectors from steam power plants.

- Ans  A. Spray type.  
 B. Rod type.  
 C. Packed type.  
 D. Cyclone separators.

Question ID : 9277592236  
Status : **Answered**  
Chosen Option : D

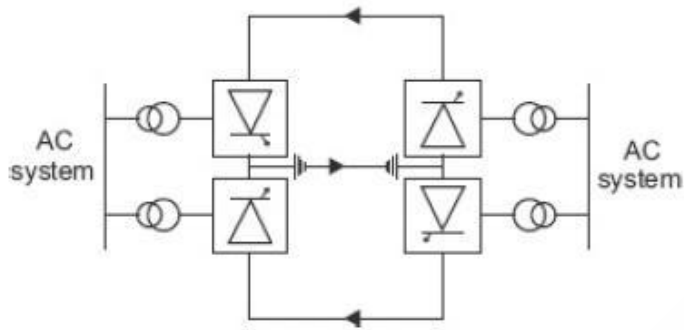
Q.81 Which of the following stages/steps is NOT involved in handling the coal in a steam power plant?

- Ans  A. Furnace firing  
 B. Transfer  
 C. Coal delivery  
 D. Washing

Question ID : 9277592237  
Status : **Answered**  
Chosen Option : A

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Q.82



The above layout belongs to:

- Ans
- A. Monopolar link.
  - B. Biopolar link.
  - C. Homopolar link.
  - D. Induced link.

Question ID : 9277592264  
Status : Answered  
Chosen Option : B

Q.83 Body centred cubic (B.C.C.) type crystal structure is found in \_\_\_\_\_.

- Ans
- A. sodium
  - B. aluminium
  - C. gold
  - D. calcium

Question ID : 9277592174  
Status : Not Attempted and Marked For Review  
Chosen Option : --

Q.84 \_\_\_\_\_ are used in applications where power consumption and space are more important than speed as in pocket calculators.

- Ans
- A. Dynamic MOS
  - B. Static shift registers
  - C. Static inverters
  - D. Bi-shift registers

Question ID : 9277592181  
Status : Answered  
Chosen Option : C



**Q.85 Which of the following statements is true for 'star/star' transformer connection?**

**Ans**  A. This connection can operate at 58 percent normal rating as open-star when one transformer is removed for maintenance.

B.

This connection has an associated phase shift of  $\pm 30^\circ$  which must be accounted for in power system interconnections.

C. This connection is rarely used because of difficulties associated with the exciting current.

D. This suits large LV transformers.

Question ID : 9277592183

Status : **Answered**

Chosen Option : **C**

**Q.86 Which of the following methods requires use of peripheral components?**

**Ans**  A. Internal control of AC output voltage

B. External control of DC output voltage

C. Internal control of inverter

D. External control of DC input voltage

Question ID : 9277592201

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

Chosen Option : --

**Q.87 Which of the following is NOT one of the advantages of thermal power plants?**

**Ans**  A. Require less space compared to hydro-electric plants.

B. Fuel used is mainly coal, which is quite inexpensive.

C. Rapidly changing load without any difficulty.

D. Operating cost is low as compared to nuclear and hydro-electric power plants.

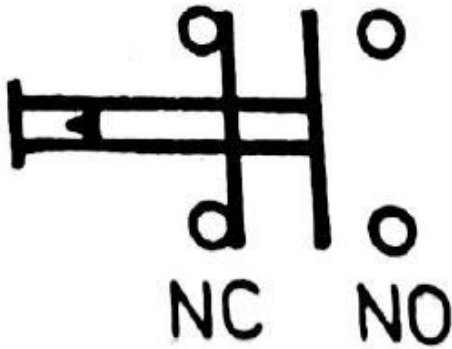
Question ID : 9277592232

Status : **Answered**

Chosen Option : **C**

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Q.88



The above figure about a push button is:

- Ans
- A. A multiline diagram of push button.
  - B. A symbol of push button with 1 NO and 1 NC contact.
  - C. A photographic view of push-button.
  - D. A push button is shown in pressed condition with its NC contact becoming open and NO contact becoming close.

Question ID : 9277592229  
Status : Answered  
Chosen Option : B

Q.89 Which of the following safety and monitoring devices is NOT provided to a power transformer as a safety instrument?

- Ans
- A. Fluid level gauge
  - B. Gas temperature indicator
  - C. Pressure/vacuum switch
  - D. Dielectric gauge

Question ID : 9277592280  
Status : Answered  
Chosen Option : D

Q.90 \_\_\_\_\_ is NOT one of the types of a 'digital voltmeter'.

- Ans
- A. Static balance type DVM
  - B. Potentiometric type DVM
  - C. Ramp type DVM
  - D. Integrating type DVM

Question ID : 9277592161  
Status : Answered  
Chosen Option : B

Q.91 Which among the following electrical appliances consumes the maximum electricity?

Ans  A. Electric heater

B. Light-bulb

C. Television

D. Fan

Question ID : 9277592303

Status : Answered

Chosen Option : A

Q.92 \_\_\_\_\_ was based upon the idea that the conduction of electric and thermal current in metals is by electrons.

Ans  A. Drude theory

B. Sommerfeld theory

C. Zone theory of solids

D. Cohesive theory of forces

Question ID : 9277592175

Status : Answered

Chosen Option : D

Q.93 Which of the following is NOT one of the non-conventional sources of energy?

Ans  A. Fire wood energy

B. Magneto-hydrodynamics generator

C. Energy from biomass and biogas

D. Tidal energy

Question ID : 9277592250

Status : Answered

Chosen Option : D

Q.94 For \_\_\_\_\_, the total resistance, inductance and capacitance (line parameters) are considered as uniformly distributed.

Ans  A. short transmission lines

B. ultra-short transmission

C. medium transmission lines

D. long transmission lines

Question ID : 9277592253

Status : Answered

Chosen Option : D

Q.95 Which of the following is NOT one of the advantages of DCS (Distributed Control Systems)?

- Ans  A. DCS provides a better platform to implement ideas.
- B. There is only marginal effect on the system capability on complete loss of data highway, due to any reason.
- C. It enables the operator or plant engineer to use several control modes for monitoring a process.
- D. Its pre-installation cost is low and is easy to maintain.

Question ID : 9277592212  
Status : Answered  
Chosen Option : D

Q.96 \_\_\_\_\_ are generally used with pole guys on low voltage lines, where it is necessary to insulate the lower part of the guy wire from the pole for the safety of people and animals on the ground.

- Ans  A. Thread insulators
- B. Shackle type insulators
- C. Strain insulators
- D. Pin type insulators

Question ID : 9277592224  
Status : Marked For Review  
Chosen Option : C

Q.97 Which of the following materials/products are NOT used for insulating electrical power equipment?

- Ans  A. Mica epoxy laminate
- B. Platinum-coated kraft paper
- C. Glass polyester rods
- D. Paper-based phenolic laminate

Question ID : 9277592294  
Status : Answered  
Chosen Option : B

Q.98 Which of the following is NOT one of the categories of copper loss in a DC machine?

- Ans  A. Field winding loss
- B. Brush contact resistance loss
- C. Armature loss
- D. Eddy current loss

Question ID : 9277592187  
Status : Answered  
Chosen Option : D

Q.99 In which of the following are choppers NOT used?

- Ans  A. Electric traction  
 B. Battery charging purposes  
 C. Mine haulers  
 D. AC voltage regulators

Question ID : 9277592197  
Status : Answered  
Chosen Option : D

Q.100 Which of the following is a universal gate for logic circuits?

- Ans  A. AND  
 B. OR  
 C. NOT  
 D. NAND

Question ID : 9277592178  
Status : Answered  
Chosen Option : D

Q.101 Which of the following is NOT an advantage of 'digital tape recording'?

- Ans  A. High accuracy  
 B. Use of simple conditioning equipment  
 C. A low quality of tape and tape transport mechanism is required  
 D. Insensitivity of tape speed

Question ID : 9277592162  
Status : Marked For Review  
Chosen Option : D

Q.102 Which of the following is NOT one of the element items included in electrical equipment of hydro-electric plant?

- Ans  A. Control room equipment  
 B. Exciters  
 C. Switchgear  
 D. Oil circuits and pumps

Question ID : 9277592248  
Status : Answered  
Chosen Option : B

Q.103 Which of the following is NOT necessary to be checked while maintaining cross arms of lines?

- Ans
- A. Rusting of cross arms
  - B. Creeper on cross arms
  - C. Sinking of earth around the pole
  - D. Tilting of cross arms

Question ID : 9277592296  
Status : Not Answered  
Chosen Option : --

Q.104 Which of the following parameters does NOT depend upon material used and physical dimensions of the conductor?

- Ans
- A. Resistance
  - B. Shunt conductance
  - C. Inductance
  - D. Capacitance

Question ID : 9277592257  
Status : Answered  
Chosen Option : B

Q.105  $0^\circ/180^\circ$  connection can also be defined as \_\_\_\_\_.

- Ans
- A. Star/Delta connection
  - B. Delta/Star connection
  - C. Star/Star connection
  - D. Indirect-star connection

Question ID : 9277592184  
Status : Not Attempted and Marked For Review  
Chosen Option : --

Q.106 Select the INCORRECT statement with regard to LEDs.

- Ans
- A. LEDs are available which emit light in different colours like red, green, yellow and amber.
  - B. LEDs are rugged and therefore withstand shocks and vibrations.
  - C. LEDs are suited for large area displays, primarily because of their low cost.
  - D. LEDs are economical and have a high degree of reliability.

Question ID : 9277592163  
Status : Answered  
Chosen Option : B

Q.107 Which of the following point should not be given due consideration while selecting the site for a gas turbine plant?

- Ans  A. The distance from the nearest power plant.  
 B. The bearing capacity of the land should be high.  
 C. Availability of means of transport.  
 D. Availability of labour.

Question ID : 9277592241  
Status : Answered  
Chosen Option : B

Q.108 Which of the following is NOT a semiconductor?

- Ans  A. Antimony  
 B. Silicon  
 C. Arsenic  
 D. Micanite

Question ID : 9277592168  
Status : Marked For Review  
Chosen Option : A

Q.109 One of the standardised instructions for output of logic line "OUT" is used \_\_\_\_\_.

- Ans  A. to output a relay  
 B. to denote the set  
 C. to output a flip flop  
 D. to reset instruction for flip flops

Question ID : 9277592209  
Status : Answered  
Chosen Option : A

Q.110 Which of the following is NOT an advantage of relays?

- Ans  A. Relays can switch AC and DC.  
 B. Relays use less power due to the current flowing through their coil.  
 C. Relays can switch many contacts at once.  
 D. Relays can switch high voltages.

Question ID : 9277592287  
Status : Marked For Review  
Chosen Option : C

Q.111 Air blast circuit breakers are suitable for:

- Ans  A. short duty  
 B. non-repeated duty  
 C. air-cuts arc duty  
 D. arc furnace duty

Question ID : 9277592282  
Status : Not Answered  
Chosen Option : --

Q.112 Which of the following is NOT an advantage of  $SF_6$  circuit breaker?

Ans  A.  $SF_6$  breakers are economical.

B. Minimum maintenance required for this breaker.

C.

The size of  $SF_6$  breaker is smaller than conventional circuit breaker of the same rating.

D. Problems connected with current chopping are minimum.

Question ID : 9277592283

Status : Answered

Chosen Option : A

Q.113 Phase transformation ratio is  $x : 1$ , the line transformation ratio is:

$$\sqrt{3}x : \frac{3}{2}$$

The given statement is true for:

Ans  A. Delta/zig-zag star connection

B. Star/Star connection

C. Delta/Star connection

D. Star/zig-zag star connection

Question ID : 9277592185

Status : Answered

Chosen Option : A

Q.114 Which of the following is also known as 'quasi wave inverter'?

Ans  A. Modified sine wave inverter

B. Square wave inverter

C. Sine wave inverter

D. Direct wave inverter

Question ID : 9277592203

Status : Answered

Chosen Option : A



Q.115 As a thumb rule, the depth of the pole to be planted in the ground is taken as \_\_\_\_\_ of the pole length.

- Ans
- A.  $\frac{1}{10}$
  - B.  $\frac{1}{6}$
  - C.  $\frac{1}{5}$
  - D.  $\frac{1}{4}$

Question ID : 9277592222  
Status : **Marked For Review**  
Chosen Option : **B**

Q.116 WH efficiency of the battery for UPS varies from:

- Ans
- A. 25 percent - 30 percent
  - B. 10 percent - 20 percent
  - C. 70 percent - 80 percent
  - D. 50 percent - 60 percent

Question ID : 9277592206  
Status : **Answered**  
Chosen Option : **D**

Q.117 Insulating material, cotton or oiled cambric tapes, are used for which part of machines?

- Ans
- A. Rectangular conductors such as used in large D.C. machines
  - B. Taping armature and field coils of traction motor stator coils of high-voltage alternators
  - C. Insulation of commutators
  - D. For insulating terminals of high-voltage machines

Question ID : 9277592173  
Status : **Answered**  
Chosen Option : **A**

Q.118 \_\_\_\_\_ is the luminous flux received by a surface per unit area.

- Ans
- A. Illumination
  - B. Luminance
  - C. Candle power
  - D. Lumen

Question ID : 9277592302  
Status : **Marked For Review**  
Chosen Option : **B**

Q.119 Which of the following is also known as 'condition based maintenance' strategy?

- Ans  A. Reactive maintenance  
 B. Predictive maintenance  
 C. Proactive maintenance  
 D. Preventive maintenance

Question ID : 9277592293  
Status : Answered  
Chosen Option : C

Q.120 The output best suited for both AC and DC output devices is \_\_\_\_\_.

- Ans  A. relay output  
 B. transistor output  
 C. delta output  
 D. triac output

Question ID : 9277592286  
Status : Answered  
Chosen Option : D

Q.121 Which of the following motors are used in machine tools?

- Ans  A. Slip ring induction motors  
 B. Pipe ventilated type motors  
 C. D.C. cumulative motors  
 D. Squirrel-cage motors

Question ID : 9277592299  
Status : Answered  
Chosen Option : D

Q.122 There are \_\_\_\_\_ number of digits in a binary number system.

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

Question ID : 9277592177  
Status : Answered  
Chosen Option : A

Q.123 \_\_\_\_\_ can be very small and are usually associated with electronic circuitry such as preamplifier and a ADC, so that a single chip can produce digital audio.

- Ans
- A. Carbon microphones.
  - B. Dynamic microphones.
  - C. Silicon microphones.
  - D. Condenser microphones.

Question ID : 9277592165

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

Chosen Option : --

Q.124 Which of the following is also used as synonym for 'off the shelf'?

- Ans
- A. Out of the box thinking
  - B. Mind mapping
  - C. Innovation head
  - D. Brainstorming

Question ID : 9277592273

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

Chosen Option : --

Q.125 \_\_\_\_\_ have frequency band range 20 kHz - 30 MHz.

- Ans
- A. Video frequency oscillators
  - B. High frequency oscillators
  - C. Radio frequency oscillators
  - D. Very high frequency oscillators

Question ID : 9277592167

Status : **Answered**

Chosen Option : **C**

Q.126 Electric heater, valves, relays etc. of PLC are:

- Ans
- A. power supply devices
  - B. rack devices
  - C. input devices
  - D. output devices

Question ID : 9277592284

Status : **Answered**

Chosen Option : **D**

Q.127 Which of the following is an INCORRECT type of chopper?

- Ans  A. Parallel capacitor turn-off chopper  
 B. Series turn-off chopper  
 C. Morgan chopper  
 D. Series-SCR chopper

Question ID : 9277592199  
Status : Answered  
Chosen Option : C

Q.128 \_\_\_\_\_ has a fixed number of I/O modules and external I/O cards. So, it does NOT have the capability to expand the modules.

- Ans  A. Modular PLC  
 B. Dynamic PLC  
 C. Multi-concept PLC  
 D. Compact PLC

Question ID : 9277592285  
Status : Answered  
Chosen Option : A

Q.129 Select, from the following options, the INCORRECT use of ash of steam power plants.

- Ans  A. Ash is widely used in the production of cement  
 B. Because of their residual value, they are used for treating neutral soils which increases yield of wheat, sugarcane etc.  
 C. From the ash, metals such as Fe, Si and titanium can be recovered  
 D. Ash is used in the production of concrete

Question ID : 9277592238  
Status : Answered  
Chosen Option : B

Q.130 Which of the following is NOT a disadvantage of EHV lines?

- Ans  A. Corona problems increase in the voltage gradient.  
 B. Generation and distribution of power is in AC only.  
 C. Insulation coordination based upon switching impulse level.  
 D. Over voltage problem due to switching surge.

Question ID : 9277592263  
Status : Answered  
Chosen Option : B

Q.131 'Hewlett, cemented cap and core and link' are types of which insulator used for overhead transmission line?

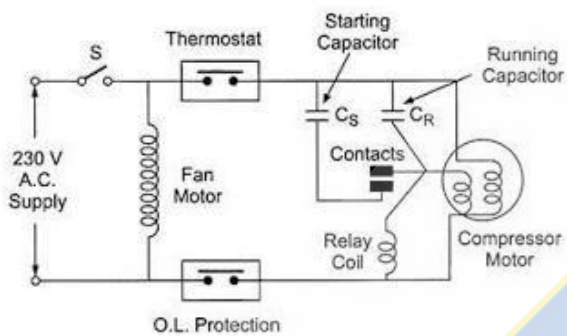
- Ans
- A. Pin type
  - B. Suspension type
  - C. Shackle type
  - D. Strain type

Question ID : 9277592266

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

Chosen Option : --

Q.132



The given electrical circuit belongs to:

- Ans
- A. Does not belong to any domestic appliance
  - B. Water cooler
  - C. Air conditioner
  - D. Refrigerator

Question ID : 9277592301

Status : **Answered**

Chosen Option : **D**

Q.133 The ratio of the work actually developed by the turbine expanding hot power gas through a given pressure range to that would be yielded for ideal expansion conditions.

The given statement relates to which of the following terms?

- Ans
- A. Machine efficiency
  - B. Engine efficiency
  - C. Thermal efficiency
  - D. Combustion efficiency

Question ID : 9277592242

Status : **Answered**

Chosen Option : **A**

Q.134 Select the correct applications of offline UPS?

- Ans
- A. Intensive care units
  - B. Medical equipment
  - C. Induction motor drives
  - D. Emergency power supplies, EPABX

Question ID : 9277592205  
Status : Answered  
Chosen Option : D

Q.135 Which of the following accessory is NOT required for the conductor to be installed on poles?

- Ans
- A. Toothed groove clamp.
  - B. Tension clamp.
  - C. Repair sleeve.
  - D. Binding tape.

Question ID : 9277592223  
Status : Not Answered  
Chosen Option : --

Q.136 Which of the following applications use shunt DC motors?

- Ans
- A. Milling machines
  - B. Hoists and elevators
  - C. Elevators
  - D. Electric locomotives

Question ID : 9277592189  
Status : Answered  
Chosen Option : B

Q.137 The generator whose field magnet winding is supplied from an independent external DC source is called:

- Ans
- A. compounded separate DC generator
  - B. individual shunt DC generator
  - C. separately excited DC generator
  - D. series-shunt DC generator

Question ID : 9277592188  
Status : Answered  
Chosen Option : C

Q.138 Which of the following HMI component includes Visual display units, alphanumeric keyboard, cursor etc?

- Ans  A. Operator console  
 B. Peripheral devices  
 C. Operator dialogue  
 D. Mimic diagram

Question ID : 9277592292  
Status : Answered  
Chosen Option : B

Q.139



The given symbol relates to:

- Ans  A. n conductors  
 B. flexible conductors  
 C. zig-zag conductors  
 D. group of several conductors

Question ID : 9277592213  
Status : Answered  
Chosen Option : B

Q.140 The ratio of power available at the shaft of the turbine to the power supplied by the water at the inlet of the turbine is known as:

- Ans  A. overall efficiency  
 B. volumetric efficiency  
 C. mechanical efficiency  
 D. hydraulic efficiency

Question ID : 9277592245  
Status : Answered  
Chosen Option : C

Q.141 The power developed at hydroelectric plants depends upon:

- Ans  A. Heat transferred to turbine.  
 B. Cumulative weight of heat loss.  
 C. Alternator efficiency.  
 D. Head and discharge.

Question ID : 9277592246  
Status : Answered  
Chosen Option : B

Q.142 Which of the following is NOT one of the reason EHV (Extra high voltage) lines are preferred?

- Ans
- A. The installation cost of transmission line per kilometer decreases as the volume of conductor decreases, and hence the cost of line supports reduces.
  - B. There is an increase in flexibility as it is directly proportional to volume of conductor.
  - C. It improves the performance of transmission lines.
  - D. There is a possibility of interconnecting power systems for the economical operation of power systems.

Question ID : 9277592262  
Status : Answered  
Chosen Option : D

Q.143 \_\_\_\_\_ is a device that closes its contacts when operating quantity reaches certain predetermined magnitude. Closing of relay contacts initiates an alarm circuit.

- Ans
- A. Auxiliary relay
  - B. Protective relay
  - C. All-or-nothing relay
  - D. Measuring relay

Question ID : 9277592278  
Status : Answered  
Chosen Option : B

Q.144 In a single-phase full bridge inverter, the number of thyristors and diodes is \_\_\_\_\_ of a single-phase half-bridge inverter.

- Ans
- A. quarter
  - B. equivalent to that
  - C. half
  - D. Twice

Question ID : 9277592204  
Status : Not Answered  
Chosen Option : --

Q.145 Which of the following is the fastest of all saturated logic families? It is also used in SSI and MSI ICs.

- Ans
- A. DCTL
  - B. TTL
  - C.  $I^2L$
  - D. RTL

Question ID : 9277592182  
Status : Not Answered  
Chosen Option : --



Q.146 \_\_\_\_\_ are conductors that are of large current carrying capacitor. They connect the substation to the area where power is to be finally distributed to consumers.

- Ans  A. Service mains  
 B. Distributors  
 C. Tappings  
 D. Feeders

Question ID : 9277592258

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

Chosen Option : --

Q.147 Select the correct type of relays for which the following statement is true.

"They are frequently used on large equipment or switchgear. These units check whether all of the current entering a system comes back out of the system. If it does not, the relay closes a contact that shuts down the equipment."

- Ans  A. Time-delay relays  
 B. Reverse-current relays  
 C. Loss-of-phase relays  
 D. Differential relays

Question ID : 9277592281

Status : **Answered**

Chosen Option : B

Q.148 \_\_\_\_\_ is a programming language that utilises statements to determine what to execute.

- Ans  A. Function block diagram  
 B. Instruction programming  
 C. Structured text programming  
 D. Sequential block diagram

Question ID : 9277592288

Status : **Answered**

Chosen Option : B

Q.149 Which method of arc extinction is employed in DC circuit breakers and in low and medium voltage AC circuit breakers?

- Ans  A. Low resistance interruption.  
 B. Zero point-interruption.  
 C. Zero principle interruption.  
 D. High resistance interruption.

Question ID : 9277592276

Status : **Answered**

Chosen Option : D

Q.150 Pre-monsoon inspection of the overhead lines does NOT involve which of the following statements?

- Ans  A. Sagging of lines should be maximised.  
 B. Stay wires should be properly aligned.  
 C. Earthing should be checked.  
 D. Leaned poles should be rectified.

Question ID : 9277592295  
Status : Answered  
Chosen Option : A

Section : General Knowledge or Awareness

Q.1 निम्न में से कौन-सा आधार (वित्तीय और अन्य सब्सिडी, लाभ और सेवाओं के लक्षित वितरण) अधिनियम, 2016 द्वारा वर्णित 'बायोमेट्रिक जानकारी' पद में शामिल नहीं है?

- Ans  A. लंबाई (Height)  
 B. आइरिस स्कैन (Iris scan)  
 C. फोटोग्राफ (Photograph)  
 D. फिंगरप्रिंट (Fingerprint)

Question ID : 9277592320  
Status : Answered  
Chosen Option : A

Q.2 \_\_\_\_\_, the adopted son of Peshwa Baji Rao II, pleaded with the British that he be given his father's pension when the latter died.

- Ans  A. Balaji Bajirao  
 B. Nana Saheb  
 C. Nana Phadnavis  
 D. Narayan Rao

Question ID : 9277592317  
Status : Answered  
Chosen Option : B

Q.3 Which of the following belongs to the genus 'Triticum'?

- Ans  A. Housefly  
 B. Mango  
 C. Wheat  
 D. Man

Question ID : 9277592312  
Status : Answered  
Chosen Option : A

Q.4 'Me-Dam (Dum)-Me-Phi' is a festival celebrated by the \_\_\_\_\_ tribe of North East India.

- Ans
- A. Khasi
  - B. Karbi
  - C. Ahom
  - D. Jaintia

Question ID : 9277592305  
Status : Answered  
Chosen Option : C

Q.5 The Union Budget 2020 allocated ₹\_\_\_\_\_ crore for the promotion of tourism in 2020-21.

- Ans
- A. 500
  - B. 1000
  - C. 3500
  - D. 2500

Question ID : 9277592310  
Status : Answered  
Chosen Option : B

Q.6 Veteran political leader SC Jamir, who was awarded the Padma Bhushan in 2020, is the former Chief Minister of \_\_\_\_\_.

- Ans
- A. Goa
  - B. Gujarat
  - C. Odisha
  - D. Nagaland

Question ID : 9277592319  
Status : Answered  
Chosen Option : C

Q.7 On 16 December 2020, \_\_\_\_\_ lit the 'Swarnim Vijay Mashaal' at the National War Memorial in Delhi to mark Vijay Diwas.

- Ans
- A. Minister of Home Affairs, Amit Shah
  - B. Chief of Defence Staff, General Bipin Rawat
  - C. Prime Minister, Narendra Modi
  - D. Defence Minister, Rajnath Singh

Question ID : 9277592318  
Status : Not Answered  
Chosen Option : --

**Q.8 Which of the following statements is INCORRECT?**

- Ans**  A. Rising Minimum Support Prices have raised the maintenance cost of procuring food-grains by the government.
- B. Increase in Minimum Support Price has induced farmers, particularly in surplus states, to divert land from production of coarse grains to the production of rice and wheat.
- C. The Food Safety and Standards Authority of India purchases surplus food-grains from farmers at a price called Minimum Support Price.
- D. The Minimum Support Price is declared by the government every year before the sowing season.

Question ID : 9277592309  
Status : Answered  
Chosen Option : A

**Q.9 As of January 2020, which of the following stadiums/grounds has the world's largest manually operated scoreboard?**

- Ans**  A. Lord's Cricket Ground
- B. Green Park Stadium
- C. Adelaide Oval
- D. Eden Park

Question ID : 9277592324  
Status : Answered  
Chosen Option : B

**Q.10 Which of the following is NOT a symptom of influenza?**

- Ans**  A. Yellowish tinge in eyes
- B. Headache and body-ache
- C. Fever
- D. Cold, cough and sneezing

Question ID : 9277592311  
Status : Answered  
Chosen Option : A

**Q.11 The Constitution of India lays down that the total number of Ministers, including the Prime Minister, in the Council of Ministers shall NOT exceed \_\_\_\_ of the total number of members of the House of the People.**

- Ans**  A. 18 percent
- B. 15 percent
- C. 10 percent
- D. 12 percent

Question ID : 9277592321  
Status : Answered  
Chosen Option : B

Q.12 The Union Budget 2020 raised custom duty on footwear by \_\_\_\_.

Ans  A. 10 percent

B. 5 percent

C. 2 percent

D. 15 percent

Question ID : 9277592308

Status : Answered

Chosen Option : B

Q.13 \_\_\_\_\_ was a radical nationalist with socialist leanings who secretly left home in India to raise an army in Singapore to free India from British rule.

Ans  A. Khan Abdul Ghaffar Khan

B. BR Ambedkar

C. Subhash Chandra Bose

D. Ram Prasad Bismil

Question ID : 9277592316

Status : Answered

Chosen Option : C

Q.14 Which of the following is NOT a musical instrument?

Ans  A. Baanhi

B. Pepa

C. Khol

D. Biyanaam

Question ID : 9277592307

Status : Not Answered

Chosen Option : --

Q.15 तानिकाशोथ/भेनिन्जाइटिस का संक्रमण निम्नलिखित में से किस तरीके से संचारित होता है?

Ans  A. त्वचा या म्यूकोसा में टीकाकरण

B. ड्रॉपलेट संक्रमण (Droplet infection)

C. मिट्टी के साथ संपर्क

D. सीधा संपर्क या स्पर्श

Question ID : 9277592313

Status : Answered

Chosen Option : D

Q.16 Gyanendra Malla is a cricketer who hails from \_\_\_\_.

- Ans  A. India  
 B. Nepal  
 C. Bangladesh  
 D. Sri Lanka

Question ID : 9277592322  
Status : Not Answered  
Chosen Option : --

Q.17 The quality of \_\_\_\_ is an important factor that decides the biodiversity in an area.

- Ans  A. topsoil  
 B. parent rock  
 C. bedrock  
 D. subsoil

Question ID : 9277592314  
Status : Not Answered  
Chosen Option : --

Q.18 Which of the following communities of India celebrates the rice harvest festival 'Puttari'?

- Ans  A. Konkani  
 B. Tuluva  
 C. Kodava  
 D. Mishmi

Question ID : 9277592306  
Status : Answered  
Chosen Option : D

Q.19 In December 2020, \_\_\_\_ became the first Indian to win a Formula 2 Grand Prix.

- Ans  A. Jehan Daruvala  
 B. Armaan Ebrahim  
 C. Karun Chandok  
 D. Gaurav Gill

Question ID : 9277592323  
Status : Answered  
Chosen Option : A

Q.20 Which of the following statements is correct?

- Ans  A. The Lakshadweep Islands lie in the Arabian Sea.  
 B. Sri Lanka has the longest coastline on the Indian Ocean.  
 C. The Deccan Peninsula protrudes into the Arabian Sea.  
 D. Maldives Islands are situated to the north of the Lakshadweep Islands.

Question ID : 9277592315  
Status : Answered  
Chosen Option : A

Section : Reasoning

**Q.1** Hamid started from his home and moved straight 3 km. Then he turned to his right and moved 2 km. Again he turned to his left and moved further 2 km. After this, he turned 90 degrees clockwise and started moving straight towards South. He reached a point X after 3 km. What is the direction of Hamid's home with respect to point X?

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

Question ID : 9277592339  
Status : Answered  
Chosen Option : D

**Q.2** Which alphanumeric cluster from the options will replace the question mark in the following series:  
C18F, E25E, G28D, I27C, K22B, ?

- Ans  A. P22F  
 B. M13A  
 C. M26G  
 D. N14A

Question ID : 9277592326  
Status : Answered  
Chosen Option : B

**Q.3** The given question consists of a statement, followed by two arguments numbered I and II. You have to decide which of the argument(s) is(are) 'strong' and accordingly select the correct option.

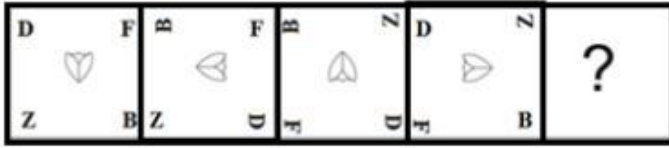
Statement: Abortion should be banned.

Arguments: I. No, it should not be banned because most of the countries have not banned it.  
II. Yes, it should be banned because life begins at conception, so unborn babies are human beings with a right to life.

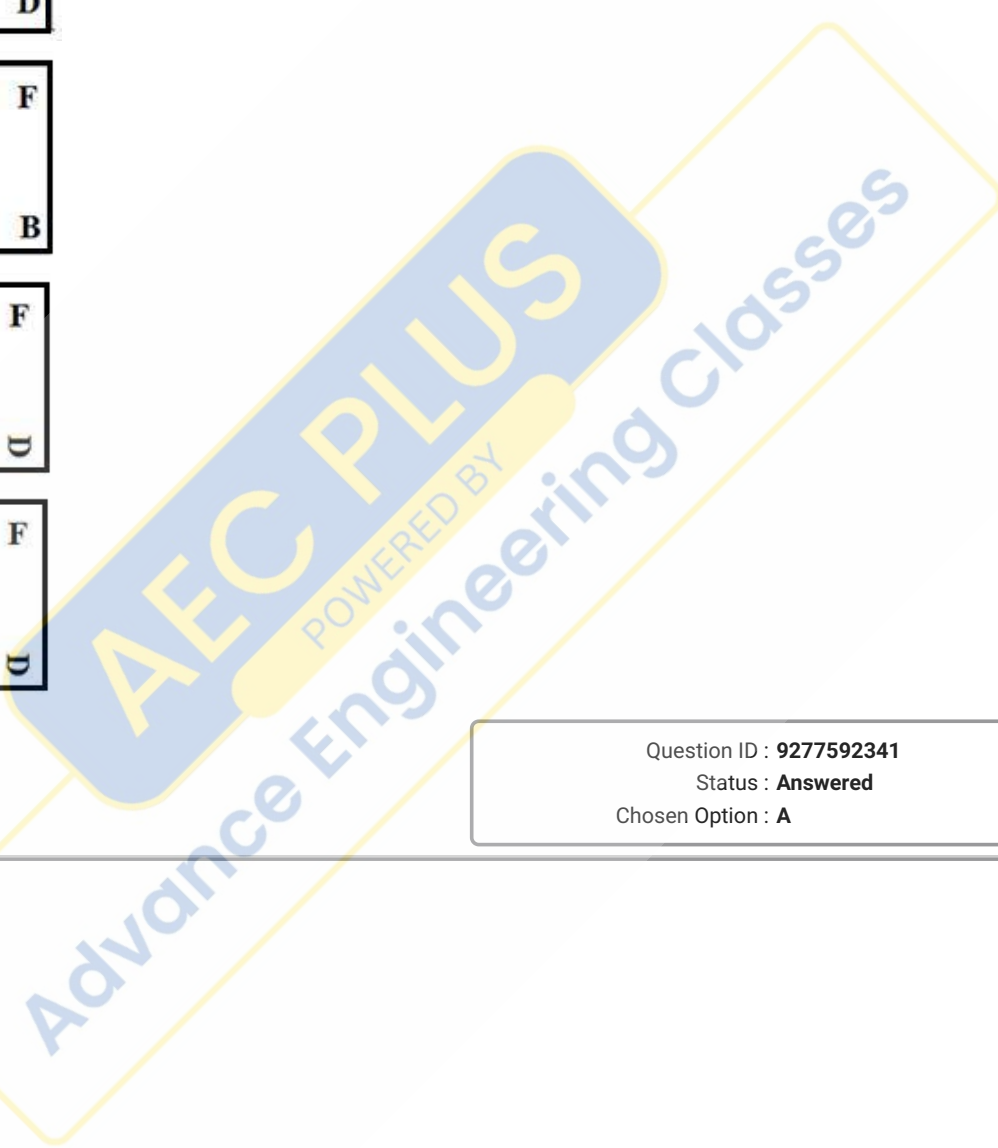
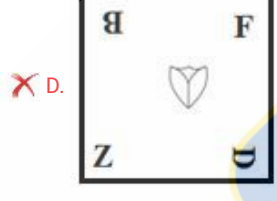
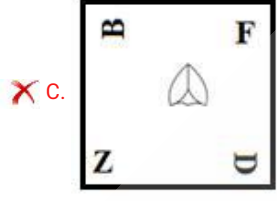
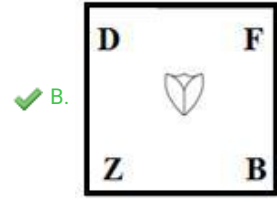
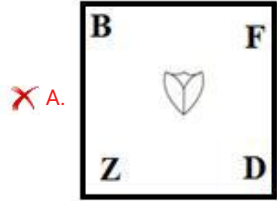
- Ans  A. None of the arguments is strong.  
 B. Both the arguments are strong.  
 C. Only argument II is strong.  
 D. Only argument I is strong.

Question ID : 9277592334  
Status : Answered  
Chosen Option : C

Q.4 Which option figure will replace the question mark in the following series:



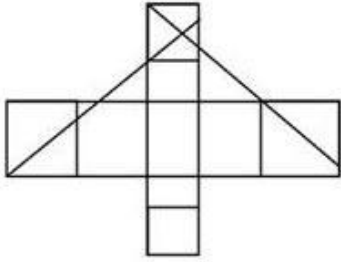
Ans



Question ID : 9277592341  
 Status : Answered  
 Chosen Option : A



Q.5 How many rectangles are there in the given figure?

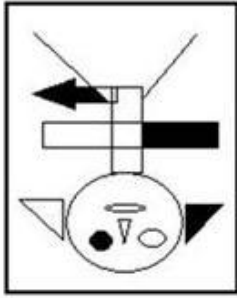


- Ans
- A. 21
  - B. 20
  - C. 30
  - D. 29

Question ID : 9277592343  
Status : Answered  
Chosen Option : A

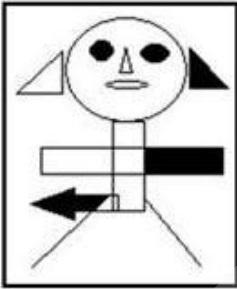
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Q.6 The image given in the question is the water image of which option figure?

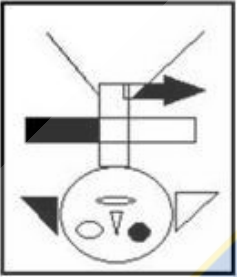


Ans

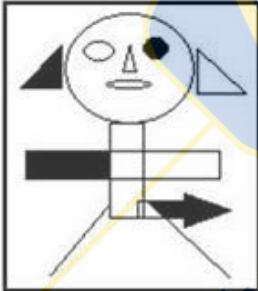
A.



B.



C.



D.



Question ID : 9277592340  
Status : Answered  
Chosen Option : D

**Q.7** Two statements are given followed by two conclusions I and II. You have to consider the two statements to be true even if they seem to be at variance from commonly known facts and then decide which of the given conclusion(s) logically follows/follow from the given statements.

**Statements:**All Cups are plates.Some plates are spoons.

**Conclusions:**I. Some spoons are plates.II. Some plates are Cups.

**Ans**  A. Both conclusions I and II follow.

B. Only conclusion I follows.

C. Neither conclusion I nor II follows.

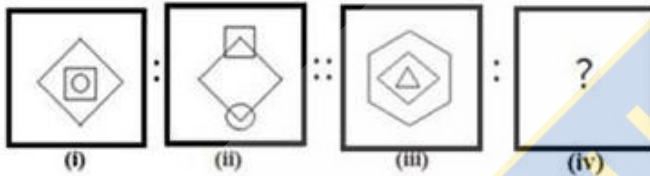
D. Only conclusion II follows.

Question ID : 9277592333

Status : Answered

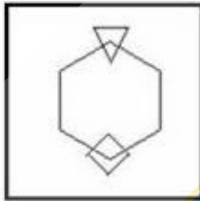
Chosen Option : A

**Q.8** Select the option that is related to the third figure in the same way as the second figure is related to the first figure.



**Ans**

A.



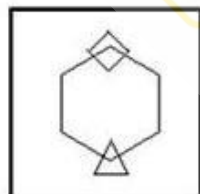
B.



C.



D.



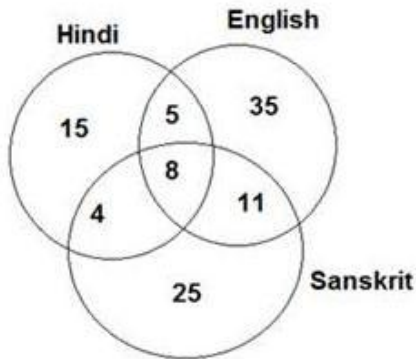
Question ID : 9277592342

Status : Answered

Chosen Option : D

Q.9 Study the diagram carefully and answer the question that follows.

The given diagram shows the number of students who failed in different languages.



What is the number of students who failed in at least two languages? Did

- Ans  A. 8  
 B. 28  
 C. 20  
 D. 5

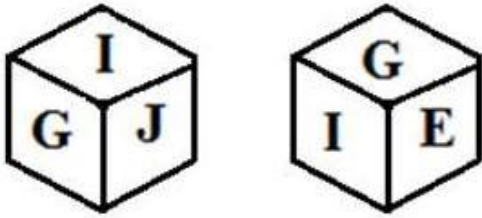
Question ID : 9277592338  
Status : Answered  
Chosen Option : B

Q.10 Select the option that is related to the third word in the same way as the second word is related to the first word.  
Rabbit : Leap :: Eagle : ?

- Ans  A. Frisk  
 B. Strut  
 C. Swoop  
 D. Amble

Question ID : 9277592328  
Status : Answered  
Chosen Option : B

Q.11 Two positions of a dice – marked with letters E, F, G, H, I and J – are shown below. Identify the letter on the face opposite to the face having letter J on it.



- Ans
- A. E
  - B. H
  - C. F
  - D. G

Question ID : 9277592344  
Status : Answered  
Chosen Option : A

Q.12 In a certain coding system, if "BAT" is coded as 6, "GOAT" is coded as 8, then how will "TIGER" be coded in the same coding system?

- Ans
- A. 32
  - B. 49
  - C. 14
  - D. 10

Question ID : 9277592329  
Status : Answered  
Chosen Option : D

Q.13 Select the option that is related to the third letter cluster in the same way as the second letter cluster is related to the first letter cluster.  
HJLN : OPQR :: KNPT : ?

- Ans
- A. STVV
  - B. RSUY
  - C. QTYZ
  - D. RTUX

Question ID : 9277592327  
Status : Answered  
Chosen Option : D

Q.14 By interchanging which of the two numbers will the following equation become mathematically correct?

$$3 \times 9 + 8 \div 2 - 7 = 16$$

- Ans
- A. 2 & 9
  - B. 8 & 3
  - C. 3 & 2
  - D. 9 & 7

Question ID : 9277592336  
Status : Answered  
Chosen Option : D

Q.15 Which number will replace the question mark (?) in the following series?  
6, 11, 18, 27, 38, 51, ?

- Ans
- A. 60
  - B. 68
  - C. 64
  - D. 66

Question ID : 9277592335  
Status : Answered  
Chosen Option : D

Q.16 If 'minute' is called 'second', 'second' is called 'metre', 'metre' is called 'hour', 'hour' is called 'litre', 'litre' is called 'kilogram', then the length of a table is measured in:

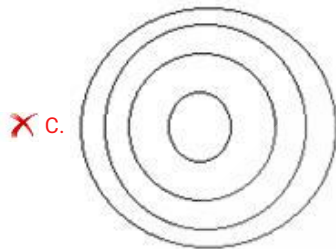
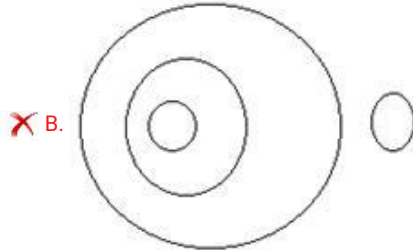
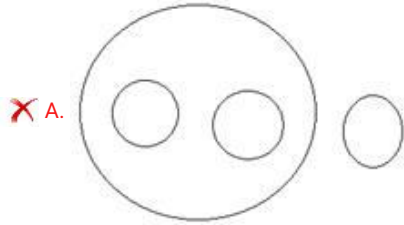
- Ans
- A. Metre
  - B. Hour
  - C. Litre
  - D. Second

Question ID : 9277592330  
Status : Answered  
Chosen Option : B

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Q.17 Which diagram best represents the relation between:  
World, England, India and Punjab

Ans



Question ID : 9277592337

Status : Answered

Chosen Option : D

Q.18 Read the given information and answer the question that follows.

Shalu and Garun play Chess and Badminton. Meena and Garun play Cricket and Chess. Shalu, Puneet and Geeta play Badminton and Ludo. Garun and Puneet play Chess and Hockey.

Who plays Chess and Cricket both but not Badminton?

- Ans
- A. Shalu
  - B. Garun
  - C. Meena
  - D. Puneet

Question ID : 9277592331

Status : Answered

Chosen Option : C

Q.19 There are six members in a family. Of these six members, two are married couples. M is the son of J. L is the only daughter of H and I. J and N are the brothers of L. K is the sister-in-law of L. How is M related to I?

- Ans
- A. Son
  - B. Brother
  - C. Grandson
  - D. Father

Question ID : 9277592332  
Status : Answered  
Chosen Option : C

Q.20 Which letter cluster from the options will replace the question mark in the following series:  
RXV, OVU, LTT, IRS, ?

- Ans
- A. DST
  - B. EPS
  - C. EQS
  - D. FPR

Question ID : 9277592325  
Status : Answered  
Chosen Option : D

Section : General Hindi

Q.1 निम्नलिखित में से कौन सा शब्द तद्भव है?

- Ans
- A. बिन्दु
  - B. बंधन
  - C. बिजली
  - D. बाहु

Question ID : 9277592347  
Status : Answered  
Chosen Option : C

Q.2 निम्नलिखित में से मध्यमपुरुष का उदाहरण है -

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

Question ID : 9277592353  
Status : Answered  
Chosen Option : B



Q.3 निम्नलिखित में से कौन सा शब्द तद्भव है?

- Ans  A. सुगंध  
 B. सूई  
 C. शय्या  
 D. सूर्य

Question ID : 9277592345  
Status : Answered  
Chosen Option : B

Q.4 'नष्ट होने के करीब होना' अर्थ के लिए सही मुहावरा कौन सा है?

- Ans  A. चार दिन की चाँदनी  
 B. चिराग तले अँधेरा होना  
 C. चींटी के पर निकलना  
 D. चोटी का पसीना एड़ी तक आना

Question ID : 9277592354  
Status : Answered  
Chosen Option : C

Q.5 निम्नलिखित 'एकवचन - बहुवचन' के समुच्चय में कौन सा युग्म सही है?

- Ans  A. चिड़िया - चिड़िँ  
 B. लता - लतें  
 C. कामना - कामनाएँ  
 D. नीति - नीतिँ

Question ID : 9277592352  
Status : Answered  
Chosen Option : C

Q.6 निम्नलिखित में से कौन सा शब्द तद्भव है?

- Ans  A. मुख  
 B. मयूर  
 C. मेघ  
 D. मीत

Question ID : 9277592346  
Status : Answered  
Chosen Option : D

Q.7 'नीरज - नीरद' शब्द-युग्म का सही अर्थ है -

- Ans  A. कमल - बादल  
 B. बादल - कमल  
 C. कमल - समुद्र  
 D. पानी - कमल

Question ID : 9277592351  
Status : Answered  
Chosen Option : C

Q.8 पदार्थवाचक संज्ञा के कितने भेद हैं?

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

Question ID : 9277592348  
Status : **Marked For Review**  
Chosen Option : B

Q.9 'आक्रमण करने वाला' वाक्यांश के लिए सार्थक शब्द कौन सा है?

- Ans  A. आत्महंता  
 B. आक्रामक  
 C. आक्रांत  
 D. आततायी

Question ID : 9277592349  
Status : **Answered**  
Chosen Option : C

Q.10 'नशा - निशा' शब्द-युग्म का सही अर्थ है -

- Ans  A. घमंड - रात  
 B. मादकता - रात  
 C. रात - मादकता  
 D. मादकता - स्त्री

Question ID : 9277592350  
Status : **Answered**  
Chosen Option : B

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