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# UPPCL JE

**Previous Year Paper**  
**Electrical 8 Sept 2021**  
**(Shift 2)**





# 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 2 Industrial Area Panki
Test Date	08/09/2021
Test Time	2:30 PM - 5:30 PM
Subject	Junior Engineer (Trainee) Electrical

Section : Domain Knowledge

Q.1 What is the aim of all energy conservation techniques?

- Ans ☒ A. To experiment with new energy sources
- ☒ B. To reduce energy losses
- ☒ C. To promote non-renewable energy sources
- ☒ D. To replace old equipment with new ones

Question ID : 9277593712  
Status : Answered  
Chosen Option : B

Q.2 Which of the following is the correct sequence of steps in a coal handling system?

- Ans ☒ A. Preparation, Inplant handling, Furnace firing, Coal delivery
- ☒ B. Coal delivery, Preparation, Inplant handling, Furnace firing
- ☒ C. Coal delivery, Preparation, Furnace firing, Inplant handling
- ☒ D. Inplant handling, Furnace firing, Coal delivery, Preparation

Question ID : 9277593693  
Status : Answered  
Chosen Option : B

Q.3 The average current rating of a semiconductor diode will be maximum for:

- Ans ☒ A. half-wave rectified ac
- ☒ B. full-wave rectified ac
- ☒ C. pure dc
- ☒ D. pure ac

Question ID : 9277593680  
Status : Answered  
Chosen Option : C

Q.4 For transformers above 1000 KVA rating, inspection of Buchholz relay is carried out:

- Ans ☒ A. every year  
☒ B. every 4 years  
☒ C. every 2 years  
☒ D. every 3 years

Question ID : 9277593746  
Status : Answered  
Chosen Option : A

Q.5 Intermediate switch is also called the \_\_\_\_\_.

- Ans ☒ A. one-way switch  
☒ B. four-way switch  
☒ C. two-way centre-off switch  
☒ D. two-way switch

Question ID : 9277593686  
Status : Answered  
Chosen Option : D

Q.6 Which of the following is NOT an example of inert gas welding?

- Ans ☒ A. Thermit welding  
☒ B. TIG welding  
☒ C. MIG welding  
☒ D. MAG welding

Question ID : 9277593756  
Status : Answered  
Chosen Option : A

Q.7 Which of the following is NOT a valid advantage of underground system of electrical distribution as compared to overhead system?

- Ans ☒ A. Decent appearance  
☒ B. Long life  
☒ C. Less maintenance  
☒ D. Low cost

Question ID : 9277593688  
Status : Answered  
Chosen Option : D

Q.8 In common collector configuration of transistor, the voltage gain is always:

- Ans ☒ A. less than unity  
☒ B. infinity  
☒ C. greater than unity  
☒ D. zero

Question ID : 9277593673  
Status : Answered  
Chosen Option : B

Q.9 The wave used to minimise heat dissipation in the switching transistor of an SMPS is a:

- Ans ☒ A. triangular wave  
☒ B. sine wave  
☒ C. saw-tooth wave  
☒ D. square wave

Question ID : 9277593676  
Status : Answered  
Chosen Option : A

Q.10 Which of the following faults is least likely to occur in power systems?

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

Question ID : 9277593726  
Status : Answered  
Chosen Option : C

Q.11 Which of the following heating elements is suitable for the highest temperature?

- Ans ☒ A. Nichrome  
☒ B. Plastic  
☒ C. Tungsten  
☒ D. Silicon carbide

Question ID : 9277593754  
Status : Answered  
Chosen Option : C

Q.12 A 2000/200 V transformer absorbs 400 Watts. Find the iron loss current.

- Ans ☒ A. 5.0 A  
☒ B. 2.0 A  
☒ C. 0.5 A  
☒ D. 0.2 A

Question ID : 9277593660  
Status : Answered  
Chosen Option : B

Q.13 For the same power output, which power plant of the following has minimum operating charges?

- Ans ☒ A. Hydel plant  
☒ B. Nuclear plant  
☒ C. Thermal plant  
☒ D. Gas turbine plant

Question ID : 9277593697  
Status : Answered  
Chosen Option : A

Q.14 Which of the following is a conventional source of energy?

- Ans ☒ A. Wind  
☒ B. Biomass  
☒ C. Fossil fuels  
☒ D. Solar energy

Question ID : 9277593690  
Status : Answered  
Chosen Option : C

Q.15 Which of the following statements is INCORRECT for HVDC transmission?

- Ans ☒ A. Corona losses are less as compared to a.c. transmission.  
☒ B. Charging current is absent.  
☒ C. It operates at unity power factor.  
☒ D. It suffers from skin effect.

Question ID : 9277593706  
Status : Answered  
Chosen Option : D

Q.16 Which of the following semiconductor devices can be used in enhanced mode?

- Ans ☒ A. MOSFET  
☒ B. JFET  
☒ C. NPN transistor  
☒ D. UJT

Question ID : 9277593682  
Status : Answered  
Chosen Option : A

Q.17 To increase the voltage range of an analogue voltmeter an additional resistance is added in series with the meter resistance. This additional resistance is called \_\_\_\_\_.

- Ans ☒ A. multiplier  
☒ B. divider  
☒ C. shunt  
☒ D. short

Question ID : 9277593624  
Status : Answered  
Chosen Option : A

Q.18 The energy conservation building code is applicable to \_\_\_\_\_.

- Ans ☒ A. open lands and farms only  
☒ B. old buildings only  
☒ C. new buildings only  
☒ D. old as well as new buildings

Question ID : 9277593714  
Status : Answered  
Chosen Option : C

Q.19 Which of the following methods of welding does NOT require electrode?

- Ans ☒ A. Plasma arc welding  
☒ B. Laser beam welding  
☒ C. TIG welding  
☒ D. Resistance welding

Question ID : 9277593760  
Status : Answered  
Chosen Option : B

Q.20 Because of corona, in case of AC transmission, \_\_\_\_\_ harmonics are always present.

- Ans ☒ A. 3rd  
☒ B. 7th  
☒ C. 11th  
☒ D. 5th

Question ID : 9277593729  
Status : Answered  
Chosen Option : C

Q.21 What is the minimum requirement of connected load in a new building for the energy conservation building code to be applicable?

- Ans ☒ A. 100 kW  
☒ B. 10 MW  
☒ C. 1000 kW  
☒ D. 500 kW

Question ID : 9277593718  
Status : Answered  
Chosen Option : A

Q.22 If the shunt admittance of a transmission line is ignored, the torque angle at which maximum power will occur is \_\_\_\_\_.

- Ans ☒ A.  $\pi/2$   
☒ B.  $-\pi/2$   
☒ C.  $\pi/4$   
☒ D.  $\pi$

Question ID : 9277593709  
Status : Answered  
Chosen Option : C

Q.23 The base of octal number system is \_\_\_\_\_.

- Ans
- ☒ A. 10
  - ☒ B. 16
  - ☒ C. 8
  - ☒ D. 2

Question ID : 9277593639  
Status : Answered  
Chosen Option : C

Q.24 Which of the following frequency meters works on the heterodyne principle?

- Ans
- ☒ A. Wien bridge frequency meter
  - ☒ B. Zero beat frequency meter
  - ☒ C. Oscilloscope
  - ☒ D. Digital frequency counter

Question ID : 9277593627  
Status : Answered  
Chosen Option : B

Q.25 In case of ETAP software, the full form of ETAP is:

- Ans
- ☒ A. Estimation of Transient Analysis of Power
  - ☒ B. Electrical Testing and Analysis Program
  - ☒ C. Electrical Transient Analyzer Program
  - ☒ D. Electrical Transformer Analysis Program

Question ID : 9277593762  
Status : Answered  
Chosen Option : C

Q.26 As per classical organisation theory, a supervisor CANNOT directly supervise the work of more than \_\_\_\_\_ subordinates.

- Ans
- ☒ A. 8 to 10
  - ☒ B. 1 to 2
  - ☒ C. 5 to 6
  - ☒ D. 12 to 15

Question ID : 9277593722  
Status : Answered  
Chosen Option : B

Q.27 Which of the following is an application of induction heating?

- Ans
- ☒ A. Room heater
  - ☒ B. Wood gluing
  - ☒ C. Brazing
  - ☒ D. Immersion water heater

Question ID : 9277593753  
Status : Answered  
Chosen Option : D

Q.28 For a single-phase 250/3000 volts, 50 Hz transformer, the EMF per turn is 8 volts. Find the number of secondary turns.

- Ans ☒ A. 375  
☒ B. 32  
☒ C. 325  
☒ D. 48

Question ID : 9277593658  
Status : Answered  
Chosen Option : A

Q.29 With reference to the AC and DC transmission, state whether the following statements are true/false.

1. In AC transmission, power is proportional to the product of the line end voltages.  
2. In DC transmission, power is proportional to the difference of the line end voltages.

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

Question ID : 9277593705  
Status : Not Answered  
Chosen Option : --

Q.30 Which of the following materials can serve the purpose of acceptor impurity for obtaining p-type semiconductor?

- Ans ☒ A. Gallium  
☒ B. Arsenic  
☒ C. Phosphorus  
☒ D. Antimony

Question ID : 9277593633  
Status : Answered  
Chosen Option : A

Q.31 The set of horizontal and vertical lines permanently marked on the CRT screen is called:

- Ans ☒ A. aquadag  
☒ B. control grid  
☒ C. focusing anode  
☒ D. graticule

Question ID : 9277593621  
Status : Answered  
Chosen Option : D

Q.32 Which of the following softwares is used for programming of embedded devices?

- Ans
- ☐ A. PSCAD
  - ☐ B. ETAP
  - ☐ C. Multisim
  - ☒ D. Keil uVision

Question ID : 9277593764  
Status : Answered  
Chosen Option : A

Q.33 Operation of stepping motors at high speeds is called \_\_\_\_\_ .

- Ans
- ☐ A. inching
  - ☐ B. fast forward
  - ☒ C. slewing
  - ☐ D. jogging

Question ID : 9277593669  
Status : Answered  
Chosen Option : A

Q.34 Which part of the steam power plant converts mechanical energy into electrical energy?

- Ans
- ☒ A. Generator
  - ☐ B. Boiler
  - ☐ C. Furnace
  - ☐ D. Turbine

Question ID : 9277593691  
Status : Answered  
Chosen Option : A

Q.35 In Nominal-T configuration of medium transmission line, the shunt capacitance is assumed to be:

- Ans
- ☐ A. concentrated at the receiving end of the line
  - ☐ B. concentrated at the sending end of the line
  - ☒ C. concentrated at the middle of the line
  - ☐ D. distributed equally throughout the length

Question ID : 9277593701  
Status : Answered  
Chosen Option : C

Q.36 Which element of the flowchart is used to begin and end the programs?

- Ans
- ☐ A. Rectangle box
  - ☐ B. Diamond
  - ☒ C. Bubble
  - ☐ D. Arrow

Question ID : 9277593740  
Status : Answered  
Chosen Option : B

Q.37 What is the unit of measurement for slew rate of an op-amp?

- Ans ☒ A. Ampere  
☒ B. dB  
☒ C. nA  
☒ D. V/ $\mu$ s

Question ID : 9277593677  
Status : Answered  
Chosen Option : D

Q.38 In case of IDMT over current relay, IDMT means:

- Ans ☒ A. Inverse Differential Minimum Time  
☒ B. Inverse Definite Maximum Time  
☒ C. Inverse Differential Maximum Time  
☒ D. Inverse Definite Minimum Time

Question ID : 9277593728  
Status : Answered  
Chosen Option : D

Q.39 Which of the following methods of cleaning is NOT suitable for electrical equipment?

- Ans ☒ A. Non-conductive sandblasting  
☒ B. Shot blasting  
☒ C. Brushing  
☒ D. Vacuum cleaning

Question ID : 9277593747  
Status : Answered  
Chosen Option : C

Q.40 While using analogue meters, which error may result if the line of sight is NOT exactly perpendicular to the measuring scale?

- Ans ☒ A. Parallax error  
☒ B. Friction error  
☒ C. Scale error  
☒ D. Loading error

Question ID : 9277593626  
Status : Answered  
Chosen Option : A

Q.41 Normally, overhauling is performed at an interval of \_\_\_\_\_.

- Ans ☒ A. 1 week  
☒ B. 5 years  
☒ C. 1 month  
☒ D. 6 months

Question ID : 9277593745  
Status : Answered  
Chosen Option : D

Q.42 Which of the following IC logic families has minimum value of fan-out?

- Ans
- ☒ A. ECL
  - ☒ B. CMOS
  - ☒ C. Low power Schottky TTL
  - ☒ D. Standard TTL

Question ID : 9277593645  
Status : Answered  
Chosen Option : A

Q.43 In which of the following methods of welding is a transducer used to convert high frequency electric power into vibratory energy?

- Ans
- ☒ A. Ultrasonic welding
  - ☒ B. DC arc welding
  - ☒ C. MIG welding
  - ☒ D. Resistance welding

Question ID : 9277593759  
Status : Answered  
Chosen Option : A

Q.44 A relay with 5A rating is having the relay setting of 125 percent. Find the operating current of the relay.

- Ans
- ☒ A. 3.75A
  - ☒ B. 10A
  - ☒ C. 6.25A
  - ☒ D. 5A

Question ID : 9277593731  
Status : Answered  
Chosen Option : C

Q.45 Which of the following is a semiconductor material?

- Ans
- ☒ A. Bakelite
  - ☒ B. Brass
  - ☒ C. Asbestos
  - ☒ D. Germanium

Question ID : 9277593630  
Status : Answered  
Chosen Option : D

Q.46 In production planning and control system, \_\_\_\_\_ means estimation of type, quantity and quality of future work.

- Ans ☒ A. forecasting
- ☒ B. data processing
- ☒ C. scheduling
- ☒ D. dispatching

Question ID : 9277593724  
Status : Answered  
Chosen Option : A

Q.47 Which of the following is INCORRECT for an ideal transformer?

- Ans ☒ A. Zero permeability
- ☒ B. Zero winding resistance
- ☒ C. Zero leakage flux
- ☒ D. No losses

Question ID : 9277593654  
Status : Answered  
Chosen Option : A

Q.48 Ladder diagram is associated with \_\_\_\_\_.

- Ans ☒ A. PLC
- ☒ B. SCADA
- ☒ C. microprocessor
- ☒ D. microcontroller

Question ID : 9277593735  
Status : Answered  
Chosen Option : A

Q.49 A stepper motor has a step angle of 3°. Determine the number of steps required for the shaft to make 25 revolutions.

- Ans ☒ A. 300
- ☒ B. 600
- ☒ C. 3000
- ☒ D. 6000

Question ID : 9277593667  
Status : Answered  
Chosen Option : C

Q.50 For a 4-pole simplex wave-wound DC generator, number of parallel paths will be \_\_\_\_\_.

- Ans
- ☒ A. 8
  - ☒ B. 2
  - ☒ C. 4
  - ☒ D. 1

Question ID : 9277593657  
Status : Answered  
Chosen Option : B

Q.51 A temperature reading is recorded as 25.70°C. The number of significant figures in the reading is \_\_\_\_\_.

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

Question ID : 9277593618  
Status : Answered  
Chosen Option : D

Q.52 Which of the following binary code is also called gray code?

- Ans
- ☒ A. BCD code
  - ☒ B. Reflected code
  - ☒ C. Biquinary code
  - ☒ D. Excess-3 code

Question ID : 9277593650  
Status : Answered  
Chosen Option : B

Q.53 Which diode is represented by the given symbol?



- Ans
- ☒ A. Photo diode
  - ☒ B. Zener diode
  - ☒ C. Tunnel diode
  - ☒ D. LED

Question ID : 9277593670  
Status : Answered  
Chosen Option : D

Q.54 In 8051 microcontroller, the flags are all stored in the \_\_\_\_\_.

- Ans ☒ A. accumulator  
☒ B. program counter  
☒ C. stack pointer  
☒ D. PSW

Question ID : 9277593741  
Status : Answered  
Chosen Option : A

Q.55 Laws of Electrolysis were formulated by \_\_\_\_\_.

- Ans ☒ A. Alexander Fleming  
☒ B. Michael Faraday  
☒ C. Lord Kelvin  
☒ D. Max Planck

Question ID : 9277593758  
Status : Answered  
Chosen Option : B

Q.56 Which of the following practices is an example of a medium-term energy conservation scheme?

- Ans ☒ A. Improvement and low-cost modifications in existing system  
☒ B. Repairs of system or leakages  
☒ C. Minimisation of excess combustion air in furnace  
☒ D. Improved housekeeping

Question ID : 9277593713  
Status : Answered  
Chosen Option : C

Q.57 Which of the following devices has only two terminals?

- Ans ☒ A. DIAC  
☒ B. SCR  
☒ C. UJT  
☒ D. TRIAC

Question ID : 9277593671  
Status : Answered  
Chosen Option : A

Q.58 The real part of the propagation constant of a transmission line is:

- Ans ☒ A. phase constant  
☒ B. attenuation constant  
☒ C. stability constant  
☒ D. reliability factor

Question ID : 9277593710  
Status : Answered  
Chosen Option : A

Q.59 An atom of hydrogen has \_\_\_\_\_ in its first orbit.

- Ans
- ☒ A. 8 electrons
  - ☒ B. 2 electrons
  - ☒ C. 1 electron
  - ☒ D. 4 electrons

Question ID : 9277593629  
Status : Answered  
Chosen Option : C

Q.60 The ripple factor of a power supply is the ratio of:

- Ans
- ☒ A. peak value to DC value
  - ☒ B. RMS value to peak value
  - ☒ C. RMS value to DC value
  - ☒ D. peak value to RMS value

Question ID : 9277593675  
Status : Answered  
Chosen Option : C

Q.61 A 2-input gate gives high output only when both the inputs are low. For all other conditions the output remains low. Identify the gate.

- Ans
- ☒ A. NAND
  - ☒ B. EX-OR
  - ☒ C. OR
  - ☒ D. NOR

Question ID : 9277593642  
Status : Answered  
Chosen Option : D

Q.62 Simulink is the GUI based companion software for \_\_\_\_\_.

- Ans
- ☒ A. MATLAB
  - ☒ B. LabVIEW
  - ☒ C. MAGNET
  - ☒ D. ETAP

Question ID : 9277593765  
Status : Answered  
Chosen Option : A

Q.63 Which of the following gates is also called universal gate?

- Ans
- ☒ A. NOR
  - ☒ B. NOT
  - ☒ C. EX-OR
  - ☒ D. AND

Question ID : 9277593641  
Status : Answered  
Chosen Option : A

Q.64 A pressure gauge is calibrated between 100 bar and 350 bar. The scale span is \_\_\_\_\_.

- Ans
- ☒ A. 450 bar
  - ☒ B. 100 bar
  - ☒ C. 350 bar
  - ☒ D. 250 bar

Question ID : 9277593617  
Status : Answered  
Chosen Option : D

Q.65 Iron-Constantan thermocouple is commercially known as \_\_\_\_\_ thermocouple.

- Ans
- ☒ A. J-type
  - ☒ B. E-type
  - ☒ C. K-type
  - ☒ D. T-type

Question ID : 9277593628  
Status : Not Answered  
Chosen Option : --

Q.66 The ratio of the luminous flux to the power input is called \_\_\_\_\_.

- Ans
- ☒ A. beam factor
  - ☒ B. absorption factor
  - ☒ C. lamp efficiency
  - ☒ D. utilisation factor

Question ID : 9277593749  
Status : Answered  
Chosen Option : C

Q.67 What is the ohms/volt rating of a voltmeter with a 1 mA movement?

- Ans
- ☒ A. 10  $\Omega/V$
  - ☒ B. 1000  $\Omega/V$
  - ☒ C. 100  $\Omega/V$
  - ☒ D. 10000  $\Omega/V$

Question ID : 9277593625  
Status : Answered  
Chosen Option : B

Q.68 Boiler efficiency can be improved by \_\_\_\_\_ due to economiser.

- Ans
- ☒ A. 12 to 15 percent
  - ☒ B. 4 to 10 percent
  - ☒ C. 20 percent
  - ☒ D. 1 to 2 percent

Question ID : 9277593695  
Status : Answered  
Chosen Option : B

Q.69 In a three-phase induction motor, the maximum torque is independent of:

- Ans ☒ A. rotor reactance  
☒ B. rotor resistance  
☒ C. synchronous speed  
☒ D. applied voltage

Question ID : 9277593662  
Status : Answered  
Chosen Option : B

Q.70 In electro-dynamometer movement, the deflection of the pointer is:

- Ans ☒ A. inversely proportional to the current  
☒ B. directly proportional to the current  
☒ C. inversely proportional to the current squared  
☒ D. directly proportional to the current squared

Question ID : 9277593619  
Status : Answered  
Chosen Option : D

Q.71 In an op-amp, the differential mode gain is \_\_\_\_\_.

- Ans ☒ A. always zero  
☒ B. very high  
☒ C. always unity  
☒ D. very low

Question ID : 9277593678  
Status : Answered  
Chosen Option : B

Q.72 Which of the following is NOT a valid type of DC motor?

- Ans ☒ A. Series motor  
☒ B. Separately excited motor  
☒ C. Squirrel cage motor  
☒ D. Shunt motor

Question ID : 9277593653  
Status : Answered  
Chosen Option : C

Q.73 Which of the following is a bidirectional device?

- Ans ☒ A. GTO  
☒ B. SCR  
☒ C. TRIAC  
☒ D. PN diode

Question ID : 9277593672  
Status : Answered  
Chosen Option : C

Q.74 A single input gate in which input and output are same is called \_\_\_\_\_.

- Ans ☒ A. AND  
☒ B. EX-NOR  
☒ C. buffer  
☒ D. inverter

Question ID : 9277593643  
Status : Answered  
Chosen Option : C

Q.75 Which of the following materials is NOT used for the filament of incandescent lamp?

- Ans ☒ A. Carbon  
☒ B. Tungsten  
☒ C. Tantalum  
☒ D. Silver

Question ID : 9277593752  
Status : Answered  
Chosen Option : A

Q.76 In case of AC transmission at 132 kV using 3-phase single circuit cables, the charging kVA is \_\_\_\_\_.

- Ans ☒ A. 1250 kVA  
☒ B. 3125 kVA  
☒ C. 9375 kVA  
☒ D. 1500 kVA

Question ID : 9277593707  
Status : Not Answered  
Chosen Option : --

Q.77 Which of the following type of material is used to construct variable reluctance motor?

- Ans ☒ A. Non-magnetic  
☒ B. Ferromagnetic  
☒ C. Paramagnetic  
☒ D. Diamagnetic

Question ID : 9277593668  
Status : Answered  
Chosen Option : A

Q.78 Which of the following is an alloy of aluminium?

- Ans ☒ A. Brass  
☒ B. German silver  
☒ C. Hindalium  
☒ D. Monel metal

Question ID : 9277593632  
Status : Answered  
Chosen Option : C

Q.79 In a 6-pole DC machine, 45 mechanical degrees corresponds to \_\_\_\_\_ electrical degrees.

- Ans ☒ A. 90  
☒ B. 135  
☒ C. 180  
☒ D. 45

Question ID : 9277593666  
Status : Answered  
Chosen Option : B

Q.80 The 1's complement of the binary number  $(101100)_2$  is:

- Ans ☒ A.  $(001100)_2$   
☒ B.  $(010011)_2$   
☒ C.  $(101101)_2$   
☒ D.  $(110011)_2$

Question ID : 9277593644  
Status : Answered  
Chosen Option : B

Q.81 Which of the following methods of speed control of induction motor can be only used for wound rotor type induction motor?

- Ans ☒ A. Stator frequency control  
☒ B. Stator voltage and frequency control  
☒ C. Rotor resistance control  
☒ D. Stator voltage control

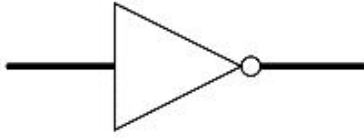
Question ID : 9277593663  
Status : Answered  
Chosen Option : C

Q.82 Which part of a motor needs maximum attention for maintenance?

- Ans ☒ A. Bearing  
☒ B. Rotor winding  
☒ C. Stator winding  
☒ D. Frame

Question ID : 9277593744  
Status : Answered  
Chosen Option : A

Q.83 Which logic gate is represented by the given symbol?



- Ans
- ☒ A. AND
  - ☒ B. NOT
  - ☒ C. OR
  - ☒ D. EX-OR

Question ID : 9277593640  
Status : Answered  
Chosen Option : B

Q.84 Which of the following shows job titles and their relationships to each other in an organisation?

- Ans
- ☒ A. Organisation rule book
  - ☒ B. Organisation manual
  - ☒ C. Standard practice instructions
  - ☒ D. Organisation chart

Question ID : 9277593721  
Status : Answered  
Chosen Option : D

Q.85 The transmission of instructions from the top executive to the lowest grade executive is called:

- Ans
- ☒ A. horizontal communication
  - ☒ B. downward communication
  - ☒ C. upward communication
  - ☒ D. unofficial communication

Question ID : 9277593720  
Status : Answered  
Chosen Option : B

Q.86 In electrical drawings, the given symbol is used to indicate a \_\_\_\_\_.



- Ans
- ☒ A. loud speaker
  - ☒ B. siren
  - ☒ C. bell
  - ☒ D. hooter

Question ID : 9277593684  
Status : Answered  
Chosen Option : C

Q.87 The board on which the energy meter, cut-out, neutral link are installed is called \_\_\_\_\_.

- Ans
- ☒ A. service board
  - ☒ B. switch board
  - ☒ C. main switch board
  - ☒ D. distribution board

Question ID : 9277593687  
Status : Answered  
Chosen Option : C

Q.88 A 4-pole, 3-phase induction motor is supplied through a 50 Hz supply. On full load, its speed is observed to be 1410 RPM. Calculate the full load slip.

- Ans
- ☒ A. 6 percent
  - ☒ B. 4 percent
  - ☒ C. 2 percent
  - ☒ D. 3 percent

Question ID : 9277593665  
Status : Answered  
Chosen Option : A

Q.89 Which of the following is NOT a desirable characteristic of the conductor used for transmission and distribution of electrical energy?

- Ans
- ☒ A. High tensile strength
  - ☒ B. Low cost
  - ☒ C. Low specific resistance
  - ☒ D. High specific gravity

Question ID : 9277593689  
Status : Answered  
Chosen Option : D

Q.90 Common emitter current gain  $h_{FE}$  of a BJT is:

- Ans
- ☒ A. dependent on collector-emitter voltage
  - ☒ B. always constant
  - ☒ C. dependent on collector current
  - ☒ D. dependent on base-emitter voltage

Question ID : 9277593679  
Status : Not Answered  
Chosen Option : --

Q.91 Which of the following methods of heating is most suitable for drying of paints?

- Ans
- ☒ A. Induction heating
  - ☒ B. Electrical resistance heating
  - ☒ C. Infrared heating
  - ☒ D. Dielectric heating

Question ID : 9277593755  
Status : Answered  
Chosen Option : D

Q.92 At the starting of induction motor the rotor frequency is:

- Ans
- ☒ A. twice the supply frequency
  - ☒ B. same as supply frequency
  - ☒ C. half of the supply frequency
  - ☒ D. zero

Question ID : 9277593655  
Status : Answered  
Chosen Option : B

Q.93 In a measurement system, which of the following static characteristics is NOT desirable?

- Ans
- ☒ A. Accuracy
  - ☒ B. Drift
  - ☒ C. Linearity
  - ☒ D. Sensitivity

Question ID : 9277593616  
Status : Answered  
Chosen Option : B

Q.94 Compounding of steam turbine is done for:

- Ans
- ☒ A. increasing the rotor speed
  - ☒ B. balancing the turbine
  - ☒ C. reducing the work done
  - ☒ D. reducing the rotor speed

Question ID : 9277593696  
Status : Answered  
Chosen Option : A

Q.95 Which of the following statements is INCORRECT for squirrel cage rotor of induction motor?

- Ans
- ☒ A. It is also called a short-circuited rotor.
  - ☒ B. Slip ring and brush assembly are not required.
  - ☒ C. Airgap between stator and rotor is not uniform.
  - ☒ D. External resistance cannot be introduced in rotor circuit.

Question ID : 9277593664  
Status : Answered  
Chosen Option : C

Q.96 Which of the following is NOT a discharge lamp?

- Ans
- ☒ A. Mercury iodide lamp
  - ☒ B. Neon lamp
  - ☒ C. Sodium vapour lamp
  - ☒ D. Incandescent lamp

Question ID : 9277593750  
Status : Answered  
Chosen Option : D

Q.97 In which of the organisational conflicts is open aggression observed?

- Ans
- ☒ A. Felt conflict
  - ☒ B. Manifest conflict
  - ☒ C. Perceived conflict
  - ☒ D. Latent conflict

Question ID : 9277593723  
Status : Answered  
Chosen Option : B

Q.98 Which of the following systems is associated with ash handling in thermal power plants?

- Ans
- ☒ A. Superheater
  - ☒ B. Condenser
  - ☒ C. Economiser
  - ☒ D. Electrostatic precipitator

Question ID : 9277593692  
Status : Answered  
Chosen Option : D

Q.99 Which of the following statements is true for Ferranti-effect?

- Ans
- ☒ A. Receiving end voltage is greater than sending end voltage
  - ☒ B. Sending end voltage is zero
  - ☒ C. Receiving end voltage is zero
  - ☒ D. Sending end voltage is greater than receiving end voltage

Question ID : 9277593704  
Status : Answered  
Chosen Option : A

Q.100 Which of the following functions is NOT under the scope of marketing management?

- Ans ☒ A. Advertising  
☒ B. Quality control  
☒ C. Sales promotion  
☒ D. Packaging

Question ID : 9277593725  
Status : Answered  
Chosen Option : B

Q.101 The approximate value of surge impedance for overhead lines is:

- Ans ☒ A. 100 ohms  
☒ B. 1000 ohms  
☒ C. 400 ohms  
☒ D. 1500 ohms

Question ID : 9277593703  
Status : Answered  
Chosen Option : C

Q.102 Total number of 8-bit ports available in Microcontroller 8051 are \_\_\_\_\_.

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

Question ID : 9277593736  
Status : Answered  
Chosen Option : B

Q.103 Which of the following practices can significantly reduce the need of new investment in energy generation or supply?

- Ans ☒ A. Reduced supply of electricity in specific areas  
☒ B. Load shedding  
☒ C. Energy conservation  
☒ D. Increase the tariff on energy

Question ID : 9277593716  
Status : Answered  
Chosen Option : D

Q.104 Which of the following is NOT a valid characteristics of switched mode power supply as compared to linear power supply?

- Ans ☒ A. Higher efficiency  
☒ B. Low noise at output  
☒ C. Light weight  
☒ D. Smaller size of transformer

Question ID : 9277593674  
Status : Answered  
Chosen Option : B

Q.105 Natural draught is produced by \_\_\_\_\_.

- Ans ☒ A. exhaust fan  
☒ B. fan  
☒ C. chimney  
☒ D. steam jet

Question ID : 9277593694  
Status : Answered  
Chosen Option : C

Q.106 In power transmission line, which phenomenon causes the ionisation of the air surrounding the power conductor?

- Ans ☒ A. Ferranti effect  
☒ B. Flashing  
☒ C. Corona  
☒ D. Skin effect

Question ID : 9277593708  
Status : Answered  
Chosen Option : C

Q.107 वे यौगिक, जो रासायनिक रूप से समरूप होते हैं लेकिन उनके भौतिक गुण भिन्न होते हैं, उन्हें \_\_\_\_\_ कहा जाता है।

- Ans ☒ A. अपररूप (allotropes)  
☒ B. समस्थानिक (Isotopes)  
☒ C. पॉलीमर (Polymers)  
☒ D. समावयवी (Isomers)

Question ID : 9277593638  
Status : Answered  
Chosen Option : A

Q.108 According to Boolean algebra, the resultant of the operation  $(A + AB)$  will be \_\_\_\_\_.

- Ans
- ☒ A. AB
  - ☒ B. B
  - ☒ C.  $A + B$
  - ☒ D. A

Question ID : 9277593651  
Status : Answered  
Chosen Option : D

Q.109 The basic circuit for the ECL family is the \_\_\_\_\_ gate.

- Ans
- ☒ A. NAND
  - ☒ B. AND
  - ☒ C. XNOR
  - ☒ D. OR/NOR

Question ID : 9277593646  
Status : Answered  
Chosen Option : B

Q.110 The signal generated by the time-base circuitry of the CRO is basically a:

- Ans
- ☒ A. triangular waveform
  - ☒ B. square waveform
  - ☒ C. sinusoidal waveform
  - ☒ D. saw-tooth waveform

Question ID : 9277593623  
Status : Answered  
Chosen Option : D

Q.111 The effective length of a short transmission line is less than \_\_\_\_\_.

- Ans
- ☒ A. 80 km
  - ☒ B. 320 km
  - ☒ C. 160 km
  - ☒ D. 100 km

Question ID : 9277593700  
Status : Answered  
Chosen Option : A

Q.112 In ladder logic, the given symbol is used to indicate \_\_\_\_\_.



- Ans
- ☒ A. fuse
  - ☒ B. heating element
  - ☒ C. relay coil
  - ☒ D. flow switch

Question ID : 9277593742  
Status : Not Answered  
Chosen Option : --

Q.113 In 8051 microcontroller, which of the following instructions is an example of unconditional jump?

- Ans
- ☒ A. CJNE
  - ☒ B. SJMP
  - ☒ C. JZ
  - ☒ D. JNZ

Question ID : 9277593738  
Status : Not Answered  
Chosen Option : --

Q.114 As compared to an incandescent lamp, CFL offers approximately \_\_\_\_\_ savings in electricity costs.

- Ans
- ☒ A. 40 to 50 percent
  - ☒ B. 70 to 80 percent
  - ☒ C. 5 to 10 percent
  - ☒ D. 20 to 30 percent

Question ID : 9277593717  
Status : Answered  
Chosen Option : B

Q.115 Which of the following bridges is used for most accurate inductance measurement of inductors having high value of Q-factor?

- Ans
- ☒ A. Hay bridge
  - ☒ B. Schering bridge
  - ☒ C. Kelvin bridge
  - ☒ D. Maxwell bridge

Question ID : 9277593622  
Status : Answered  
Chosen Option : A

Q.116 Which of the following motors is most widely used for printers?

- Ans ☒ A. Synchronous motor
- ☒ B. Stepper motor
- ☒ C. Induction motor
- ☒ D. DC series motor

Question ID : 9277593656  
Status : Answered  
Chosen Option : B

Q.117 In 8051 microcontroller programming, which instruction is used to waste the time in a software timing loop?

- Ans ☒ A. DA A
- ☒ B. NOP
- ☒ C. SWAP
- ☒ D. CLR A

Question ID : 9277593739  
Status : Answered  
Chosen Option : B

Q.118 Mercury vapour light is always \_\_\_\_\_ in colour.

- Ans ☒ A. bluish
- ☒ B. reddish
- ☒ C. pinkish
- ☒ D. yellowish

Question ID : 9277593751  
Status : Answered  
Chosen Option : A

Q.119 Which of the following faults is least severe in power systems?

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

Question ID : 9277593727  
Status : Answered  
Chosen Option : D

Q.120 Surge impedance ( $Z_c$ ) of the long transmission line is given by:

- Ans
- ☒ A.  $\sqrt{L/C}$
  - ☐ B.  $\sqrt{1/LC}$
  - ☐ C.  $\sqrt{LC}$
  - ☐ D.  $\sqrt{C/L}$

Question ID : 9277593702  
Status : Answered  
Chosen Option : D

Q.121 Using Boolean algebra, if the following Boolean expression is minimised, then the result will be:

- $AB + ABC + AB(D+E)$
- Ans
- ☒ A. AB
  - ☐ B. ABCD
  - ☐ C. A
  - ☐ D. ABC

Question ID : 9277593652  
Status : Answered  
Chosen Option : A

Q.122 The T flip-flop is a single-input version of the \_\_\_\_\_ flip-flop.

- Ans
- ☐ A. clocked RS
  - ☐ B. RS
  - ☐ C. D
  - ☒ D. JK

Question ID : 9277593648  
Status : Answered  
Chosen Option : A

Q.123 A transformer having 1000 primary turns is connected to a 250 V AC supply. For a secondary voltage of 300 V, the number of secondary turns should be:

- Ans
- ☐ A. 600
  - ☒ B. 1200
  - ☐ C. 800
  - ☐ D. 1600

Question ID : 9277593661  
Status : Answered  
Chosen Option : B

Q.124 LabVIEW is the abbreviated form of \_\_\_\_\_.

- Ans ☒ A. Laboratory Virtual Instruments Engineering Workbench  
☐ B. Laboratory Visual Instrumentation for Engineering Work  
☐ C. Laboratory Visual Instrument for Electronic Workbench  
☐ D. Laboratory Visual Instrument for Electrical Wiring

Question ID : 9277593763  
Status : Answered  
Chosen Option : A

Q.125 Constant product characteristics of a directional relay is in the form of \_\_\_\_\_.

- Ans ☐ A. straight line with positive slope  
☐ B. straight line with negative slope  
☐ C. square wave  
☒ D. rectangular hyperbola

Question ID : 9277593732  
Status : Answered  
Chosen Option : B

Q.126 A power plant has load factor = 0.75 and capacity factor = 0.60. If the maximum demand is 80 MW, then find the plant capacity.

- Ans ☐ A. 90 MW  
☐ B. 135 MW  
☒ C. 100 MW  
☐ D. 60 MW

Question ID : 9277593698  
Status : Answered  
Chosen Option : C

Q.127 Which of the following parts absorbs secondary electrons in CRT?

- Ans ☐ A. Control grid  
☒ B. Aquadag coating  
☐ C. Cathode  
☐ D. Accelerating anode

Question ID : 9277593620  
Status : Answered  
Chosen Option : B

Q.128 Process Field-Bus (PROFI-BUS) is a/an:

- Ans ☐ A. American standard  
☐ B. African standard  
☒ C. German standard  
☐ D. Asian standard

Question ID : 9277593761  
Status : Answered  
Chosen Option : C

Q.129 Which of the following insulating materials offers maximum working temperature?

- Ans ☒ A. Class A  
☒ B. Class H  
☒ C. Class F  
☒ D. Class B

Question ID : 9277593635  
Status : Answered  
Chosen Option : C

Q.130 The one major disadvantage of CMOS is \_\_\_\_\_.

- Ans ☒ A. high propagation delay  
☒ B. low fan-out  
☒ C. high noise margin  
☒ D. high power dissipation

Question ID : 9277593647  
Status : Not Answered  
Chosen Option : --

Q.131 An op-amp based integrator converts the DC level into a \_\_\_\_\_ output.

- Ans ☒ A. linearly increasing ramp  
☒ B. triangular  
☒ C. square wave  
☒ D. saw-tooth

Question ID : 9277593681  
Status : Answered  
Chosen Option : A

Q.132 In 8051 assembly language, the execution of which instruction affects the carry flag?

- Ans ☒ A. RRC A  
☒ B. SWAP A  
☒ C. RL A  
☒ D. RR A

Question ID : 9277593737  
Status : Answered  
Chosen Option : A

Q.133 Which type of switch is indicated by the given symbol?



- Ans
- ☒ A. Single-pole switch
  - ☒ B. Two-pole switch
  - ☒ C. Three-pole switch
  - ☒ D. Multi-position switch

Question ID : 9277593683  
Status : Answered  
Chosen Option : B

Q.134 The loss in draught in a chimney is \_\_\_\_\_ of the total draught produced by it.

- Ans
- ☒ A. 20 percent
  - ☒ B. 40 percent
  - ☒ C. 5 percent
  - ☒ D. 10 percent

Question ID : 9277593699  
Status : Answered  
Chosen Option : A

Q.135 Donor type impurities have \_\_\_\_\_ valence electrons.

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

Question ID : 9277593634  
Status : Answered  
Chosen Option : C

Q.136 In an organisation, which of the following positions is on the top?

- Ans
- ☒ A. Managing Director
  - ☒ B. Sales Manager
  - ☒ C. Production Manager
  - ☒ D. Marketing Manager

Question ID : 9277593719  
Status : Answered  
Chosen Option : A

Q.137 Which of the following wiring systems is most economical for house wiring?

- Ans ☒ A. Concealed conduit wiring
- ☒ B. Cleat wiring
- ☒ C. Metal sheathed wiring
- ☒ D. PVC casing and capping wiring

Question ID : 9277593685  
Status : Answered  
Chosen Option : B

Q.138 Which of the following is NOT a type of distance relay?

- Ans ☒ A. Mho relay
- ☒ B. Reactance relay
- ☒ C. Buchholz relay
- ☒ D. Impedance relay

Question ID : 9277593733  
Status : Answered  
Chosen Option : C

Q.139 Forbidden energy gap is largest in \_\_\_\_\_.

- Ans ☒ A. insulator
- ☒ B. semiconductor
- ☒ C. conductor
- ☒ D. superconductor

Question ID : 9277593631  
Status : Answered  
Chosen Option : A

Q.140 In which of the following relays is the generation of gas used as a means of fault detection?

- Ans ☒ A. Mho relay
- ☒ B. Induction cup relay
- ☒ C. Buchholz relay
- ☒ D. Reactance relay

Question ID : 9277593734  
Status : Answered  
Chosen Option : C

Q.141 Which of the following is NOT a correct way of energy conservation?

- Ans ☒ A. Effective periodic maintenance
- ☒ B. Improving power factor
- ☒ C. Replace electrical circuit with solid state circuit
- ☒ D. Increase reactive loads

Question ID : 9277593711  
Status : Answered  
Chosen Option : D

Q.142 Overhauling is the part of \_\_\_\_\_ maintenance.

- Ans ☒ A. corrective  
☒ B. predictive  
☒ C. breakdown  
☒ D. preventive

Question ID : 9277593743  
Status : Answered  
Chosen Option : D

Q.143 How many squares will be there in a three variable Karnaugh map?

- Ans ☒ A. 16  
☒ B. 8  
☒ C. 4  
☒ D. 2

Question ID : 9277593649  
Status : Answered  
Chosen Option : B

Q.144 A transformer with magnetic leakage is equivalent to an ideal transformer with:

- Ans ☒ A. high primary resistance  
☒ B. inductive coil in primary circuit  
☒ C. inductive coils in primary and secondary circuits  
☒ D. inductive coil in secondary circuit

Question ID : 9277593659  
Status : Answered  
Chosen Option : C

Q.145 Which of the following is the ore of aluminium?

- Ans ☒ A. Cryolite  
☒ B. Chalcopryrite  
☒ C. Graphite  
☒ D. Hematite

Question ID : 9277593636  
Status : Answered  
Chosen Option : B

Q.146 In which of the following cases is frequent starting and stopping of electric motors needed?

- Ans ☒ A. Grinding mills  
☒ B. Paper mills  
☒ C. Lifts and hoists  
☒ D. Air conditioners

Question ID : 9277593757  
Status : Answered  
Chosen Option : C

Q.147 Which of the following does NOT help in achieving inherent reliability in protective relay?

- Ans ☒ A. Good workmanship  
☒ B. Dust free enclosures  
☒ C. Low contact pressure  
☒ D. Robust construction

Question ID : 9277593730  
Status : Answered  
Chosen Option : A

Q.148 Which of the following is NOT a valid method of cooling of transformer?

- Ans ☒ A. Oil Natural Water Forced  
☒ B. Oil Natural Air Forced  
☒ C. Oil Forced Water Forced  
☒ D. Water Natural Oil Forced

Question ID : 9277593748  
Status : Answered  
Chosen Option : D

Q.149 निम्न में से किसने EC अधिनियम के समर्थन में विभिन्न प्रोत्साहन प्रावधान शुरू किए हैं?

- Ans ☒ A. नामित उपभोक्ता  
☒ B. ECBD  
☒ C. BEE  
☒ D. BIS

Question ID : 9277593715  
Status : Answered  
Chosen Option : B

Q.150 Permeability can be considered as the:

- Ans ☒ A. readiness of a material to accept magnetism  
☒ B. ability to resist the change in magnetisation  
☒ C. ability to oppose the electric current through it  
☒ D. ability of the material to allow the magnetic lines to pass through it

Question ID : 9277593637  
Status : Answered  
Chosen Option : D

Section : General Knowledge or Awareness

Q.1 The \_\_\_\_ dance is performed only by women at weddings and festivals in Haryana.

- Ans ☒ A. Dhamal
- ☒ B. Khoria
- ☒ C. Jhumar
- ☒ D. Phag

Question ID : 9277593768  
Status : Answered  
Chosen Option : C

Q.2 Sharath Kamal is a professional \_\_\_\_ player from India.

- Ans ☒ A. lawn tennis
- ☒ B. badminton
- ☒ C. table tennis
- ☒ D. squash

Question ID : 9277593785  
Status : Answered  
Chosen Option : D

Q.3 As per Article 22(2) of the Constitution of India, a person CANNOT be detained in custody beyond a period of \_\_\_\_ without the authority of a magistrate.

- Ans ☒ A. 24 hours
- ☒ B. 48 hours
- ☒ C. 12 hours
- ☒ D. 36 hours

Question ID : 9277593781  
Status : Answered  
Chosen Option : A

Q.4 Which of the following statements is INCORRECT?

- Ans ☒ A. The height of the tide is higher when the sun, the moon and the earth are in a straight line.
- ☒ B. Normally, there is a 15-day interval between spring tides and neap tides.
- ☒ C. Spring tides occur twice a month, one during the full moon period and another during the new moon period.
- ☒ D. The time between high tide and low tide, when the water level is falling, is called 'the ebb'.

Question ID : 9277593774  
Status : Answered  
Chosen Option : C

Q.5 In December 2020, the All India Football Federation formally announced its candidature to host the AFC Asian Cup \_\_\_\_.

- Ans
- ☒ A. 2023
  - ☒ B. 2025
  - ☒ C. 2029
  - ☒ D. 2027

Question ID : 9277593784  
Status : Answered  
Chosen Option : B

Q.6 Which of the following statements is INCORRECT?

- Ans
- ☒ A. Air pollution causes diseases such as hepatitis, cholera and typhoid.
  - ☒ B. An increase in the content of harmful substances in air is called air pollution.
  - ☒ C. The combustion of fossil fuels increases the amount of suspended particles in air.
  - ☒ D. Smog is a visible indication of air pollution.

Question ID : 9277593772  
Status : Answered  
Chosen Option : A

Q.7 Which of the following statements is NOT true regarding banking in India?

- Ans
- ☒ A. Currency notes are issued by the Reserve Bank of India.
  - ☒ B. Balance in current accounts is called 'time deposits'.
  - ☒ C. Coins are issued by the Government of India.
  - ☒ D. Balance in savings accounts is called 'demand deposits'.

Question ID : 9277593770  
Status : Answered  
Chosen Option : D

Q.8 भारतीय रिज़र्व बैंक द्वारा 2016 में महात्मा गांधी (नई) श्रृंखला के भाग के रूप में जारी किए गए ₹ \_\_\_\_\_ मूल्यवर्ग में नए डिज़ाइन किए गए बैंक नोटों का आधार रंग (base colour) मैजेंटा (गहरा गुलाबी) है।

- Ans
- ☒ A. 100
  - ☒ B. 500
  - ☒ C. 2000
  - ☒ D. 200

Question ID : 9277593769  
Status : Answered  
Chosen Option : C

Q.9 निम्न में से कौन-सा त्योहार हिंदू श्रावण (श्रवण) महीने के पांचवें दिन मनाया जाता है, जिसमें धार्मिक-क्रिया/ पूजा-पाठ के दौरान दूध चढ़ाया जाता है?

- Ans ☒ A. गंगा दशहरा  
☒ B. जीवती पूजा  
☒ C. वसंत (बसंत) पंचमी  
☒ D. नाग पंचमी

Question ID : 9277593766  
Status : Answered  
Chosen Option : D

Q.10 \_\_\_\_ played an important role in the making of the Lucknow Pact and reorganised the Muslim League after 1934.

- Ans ☒ A. Maulana Abul Kalam Azad  
☒ B. Dr. Zakir Husain  
☒ C. Khan Abdul Ghaffar Khan  
☒ D. Mohammad Ali Jinnah

Question ID : 9277593777  
Status : Answered  
Chosen Option : A

Q.11 The salt commonly used in food can be formed by a combination of \_\_\_\_ acid and sodium hydroxide solution.

- Ans ☒ A. hydrochloric  
☒ B. sulphuric  
☒ C. nitric  
☒ D. chloric

Question ID : 9277593771  
Status : Answered  
Chosen Option : A

Q.12 Refugees of certain communities from Bangladesh, Pakistan and \_\_\_\_ are eligible for Indian citizenship under the Citizenship (Amendment) Bill, 2019.

- Ans ☒ A. Bhutan  
☒ B. Nepal  
☒ C. Myanmar  
☒ D. Afghanistan

Question ID : 9277593782  
Status : Answered  
Chosen Option : D

Q.13 The Border–Gavaskar Trophy is a Test cricket series played between India and \_\_\_\_.

- Ans ☒ A. England  
☒ B. Australia  
☒ C. New Zealand  
☒ D. West Indies

Question ID : 9277593783  
Status : Answered  
Chosen Option : B

Q.14 The 'Great Conjunction' of December 2020 was a celestial event involving the planets \_\_\_\_.

- Ans ☒ A. Jupiter and Saturn  
☒ B. Mars and Jupiter  
☒ C. Venus and Mars  
☒ D. Saturn and Mercury

Question ID : 9277593780  
Status : Not Answered  
Chosen Option : --

Q.15 In November 2020, Joe Biden was elected as the \_\_\_\_ President of the US.

- Ans ☒ A. 47th  
☒ B. 46th  
☒ C. 44th  
☒ D. 43rd

Question ID : 9277593779  
Status : Answered  
Chosen Option : B

Q.16 The Muslim League announced \_\_\_\_ as 'Direct Action Day'.

- Ans ☒ A. 17 September 1944  
☒ B. 15 December 1946  
☒ C. 16 August 1946  
☒ D. 18 November 1944

Question ID : 9277593776  
Status : Answered  
Chosen Option : B

Q.17 India ranks \_\_\_\_ in the Human Development Index released by the United Nations in December 2020.

- Ans ☒ A. 137th  
☒ B. 138th  
☒ C. 131st  
☒ D. 130th

Question ID : 9277593778  
Status : Answered  
Chosen Option : B

Q.18 The \_\_\_\_ festival at Madurai Meenakshi Amman temple celebrates the celestial marriage of the Goddess Meenakshi to the God Sundareswarar.

- Ans
- ☒ A. Purattasi Sani
  - ☒ B. Chithirai
  - ☒ C. Vaikasi Visakam
  - ☒ D. Masi

Question ID : 9277593767  
Status : Not Answered  
Chosen Option : --

Q.19 The \_\_\_\_ is the western-most of the Himalayan rivers in India.

- Ans
- ☒ A. Sutlej
  - ☒ B. Indus
  - ☒ C. Brahmaputra
  - ☒ D. Ganga

Question ID : 9277593775  
Status : Answered  
Chosen Option : C

Q.20 \_\_\_\_ belong to the phylum 'Coelenterata' ('Cnidaria').

- Ans
- ☒ A. Locusts
  - ☒ B. Mosquitoes
  - ☒ C. Tapeworms
  - ☒ D. Corals

Question ID : 9277593773  
Status : Answered  
Chosen Option : C

Section : Reasoning

Q.1 Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, decide which of the conclusions logically follow(s) from the statements.

Statements:  $\lambda \leq \Omega$ ,  $\lambda > \text{£}$ ,  $\pi \geq \phi$ ,  $\text{£} > \pi$

Conclusions:

- I.  $\Omega > \phi$
- II.  $\lambda \leq \pi$

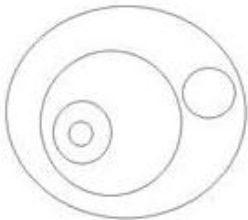
- Ans
- ☒ A. Only conclusion I follows.
  - ☒ B. Both conclusions I and II follow.
  - ☒ C. Either conclusion I or II follows.
  - ☒ D. Only conclusion II follows.

Question ID : 9277593797  
Status : Answered  
Chosen Option : A

Q.2 Select the Venn diagram that best represents the relationship between the following classes.

Universe, Earth, India, Gujarat, Bhilai  
Ans

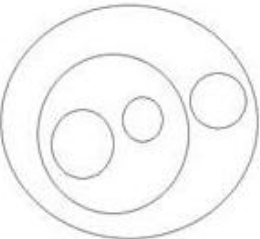
☒ A.



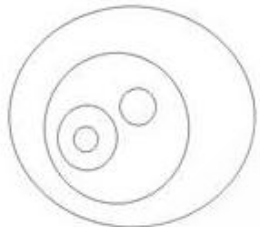
☒ B.



☒ C.

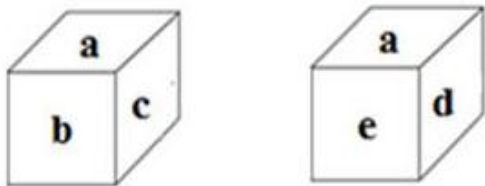


☒ D.



Question ID : 9277593801  
Status : Answered  
Chosen Option : B

Q.3 Two different positions of the same dice marked with the letters a, b, c, d, e and f are shown. From the following options, which other orientation is possible from this dice?



Ans

- ✗ A.

a

f

b
- ✓ B.

b

d

f
- ✗ C.

d

c

f
- ✗ D.

e

b

a

Question ID : 9277593804  
Status : Answered  
Chosen Option : B

Q.4 Identify the number that does NOT belong to the following series.

256, 289, 324, 361, 420, 441, 484

- ✗ A.

324
- ✗ B.

361
- ✓ C.

420
- ✗ D.

441

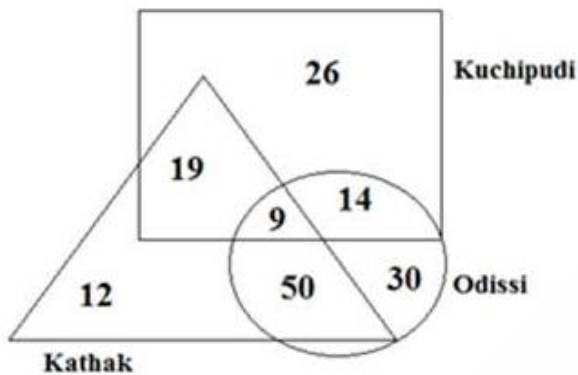
Question ID : 9277593790  
Status : Answered  
Chosen Option : C

Q.5 The present age of Tanya is double that of the age of Mohit. Five years ago, the age of Mohit was one-third that of the age of Tanya. What is the present age of Mohit?

- Ans ☒ A. 10 years
- ☒ B. 20 years
- ☒ C. 15 years
- ☒ D. 25 years

Question ID : 9277593799  
Status : Answered  
Chosen Option : A

Q.6 Study the diagram carefully and answer the question that follows.  
The given diagram shows the number of students in a school who are practicing different dance forms.

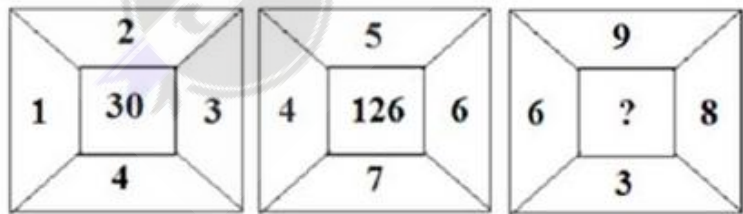


What is the number of students who practice both Odissi and Kuchipudi, but NOT Kathak?

- Ans ☒ A. 30
- ☒ B. 9
- ☒ C. 50
- ☒ D. 14

Question ID : 9277593802  
Status : Answered  
Chosen Option : D

Q.7 Study the given pattern carefully and select the number that can replace the question mark (?) in it.



- Ans ☒ A. 175
- ☒ B. 160
- ☒ C. 205
- ☒ D. 190

Question ID : 9277593795  
Status : Answered  
Chosen Option : D

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

253 : 320 :: 323 : ?

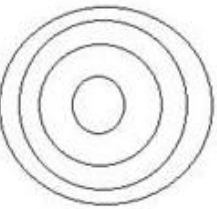
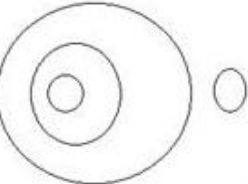

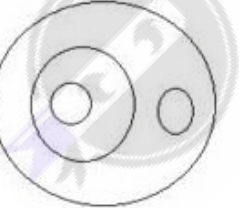
- Ans ☒ A. 390
- ☐ B. 400
- ☐ C. 365
- ☐ D. 342

Question ID : 9277593792  
Status : Answered  
Chosen Option : A

Q.9 Select the Venn diagram that best represents the relationship between the following classes.

Outdoor Games, Cricket, Chess, Hockey

Ans

- ☐ A. 
- ☐ B. 
- ☒ C. 
- ☐ D. 

Question ID : 9277593800  
Status : Answered  
Chosen Option : C

Q.10 The present ages of three friends Riya, Pankaj and Gaurav are in the ratio of 3 : 4 : 5, respectively. Five years ago the sum of their ages was 69 years. Find the present age of Pankaj.

- Ans ☒ A. 32 years  
☒ B. 28 years  
☒ C. 35 years  
☒ D. 21 years

Question ID : 9277593798  
Status : Answered  
Chosen Option : B

Q.11 Select the option that is true regarding the following two statements labelled Assertion (A) and Reason (R). Assertion (A): Wearing masks helps in controlling the spread of COVID-19 virus. Reason (R): Masks repel coronavirus.

- Ans ☒ A. A' is false but 'R' is true.  
☒ B. Both 'A' and 'R' are true but 'R' is not the correct explanation of 'A'.  
☒ C. A' is true but 'R' is false.  
☒ D. Both 'A' and 'R' are true and 'R' is the correct explanation of 'A'.

Question ID : 9277593786  
Status : Answered  
Chosen Option : C

Q.12 Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, decide which of the conclusions logically follows from the statements.

Statements:  $P \geq R$ ,  $R > T$ ,  $T \leq A$

Conclusions:

- I.  $P > A$   
II.  $T < P$

- Ans ☒ A. Either conclusion I or II follows.  
☒ B. Only conclusion I follows.  
☒ C. Only conclusion II follows.  
☒ D. Neither conclusion I nor II follows.

Question ID : 9277593796  
Status : Answered  
Chosen Option : A

Q.13 Which two numbers should be interchanged in the given equation so that the equation becomes correct?

$$96 \div 8 + 7 - 2 \times 3 = 23$$

- Ans ☒ A. 8 and 3  
☒ B. 7 and 2  
☒ C. 2 and 3  
☒ D. 3 and 7

Question ID : 9277593794  
Status : Answered  
Chosen Option : A

Q.14 Identify the number that does NOT belong to the following series.

7, 21, 63, 199, 567, 1701

- Ans
- ☒ A. 567
  - ☒ B. 21
  - ☒ C. 199
  - ☒ D. 63

Question ID : 9277593791  
Status : Answered  
Chosen Option : C

Q.15 Select the option that can replace the question mark (?) in the following number series.

53, 90, 127, 164, ?

- Ans
- ☒ A. 201
  - ☒ B. 221
  - ☒ C. 260
  - ☒ D. 182

Question ID : 9277593789  
Status : Answered  
Chosen Option : A

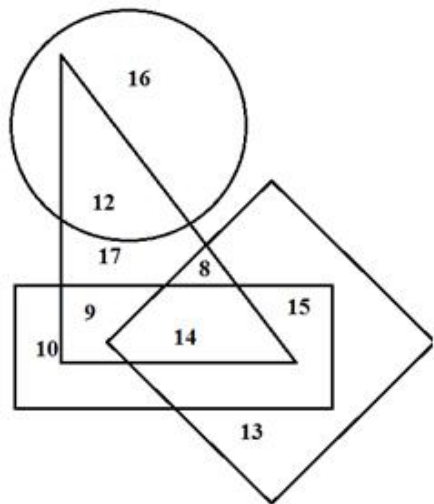
Q.16 If '-' means 'x', 'x' means '+', '+' means '÷', and '÷' means '-', then find the value of the following expression.

$335 + 67 - 8 \div 21 \times 9$

- Ans
- ☒ A. 52
  - ☒ B. 231
  - ☒ C. 28
  - ☒ D. 169

Question ID : 9277593793  
Status : Answered  
Chosen Option : C

Q.17 In the following diagram, the triangle represents men, the circle represents unemployed, the rectangle represents rural, and the square represents dancers.



How many men are NEITHER unemployed NOR dancers?

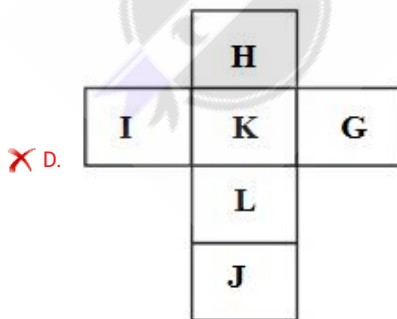
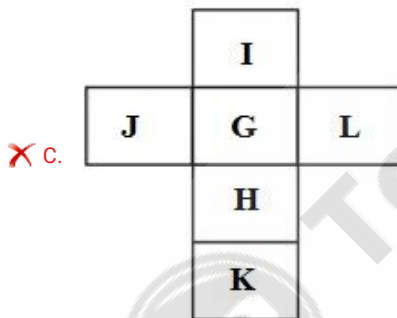
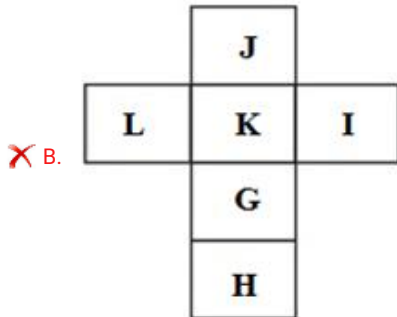
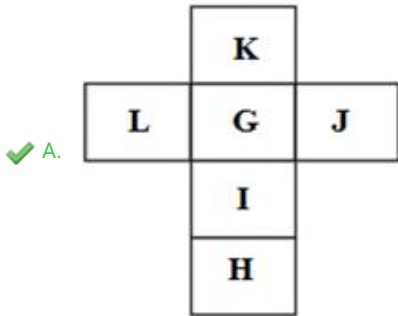
- Ans ☒ A. 17
- ☒ B. 26
- ☒ C. 9
- ☒ D. 12

Question ID : 9277593803  
Status : Answered  
Chosen Option : B

Q.18 Two different positions of the same dice marked with the letters G, H, I, J, K and L are shown. This dice is formed by folding which of the following option figures?



Ans



Question ID : 9277593805

Status : Answered

Chosen Option : A

Q.19 Select the option that can replace the question mark (?) in the following number series.

19, 28, ?, 52, 67

- Ans ☒ A. 39  
☒ B. 36  
☒ C. 34  
☒ D. 43

Question ID : 9277593787  
Status : Answered  
Chosen Option : A

Q.20 Select the option that can replace the question mark (?) in the following number series.

16, 48, 24, 72, 36, ?

- Ans ☒ A. 92  
☒ B. 120  
☒ C. 108  
☒ D. 88

Question ID : 9277593788  
Status : Answered  
Chosen Option : C

Section : General Hindi

Q.1 मानव पढ़ रहा है।' वाक्य का काल है -

- Ans ☒ A. पूर्ण वर्तमान  
☒ B. तात्कालिक वर्तमान  
☒ C. सामान्य वर्तमान  
☒ D. संदिग्ध वर्तमान

Question ID : 9277593812  
Status : Answered  
Chosen Option : B

Q.2 पपीहा \_\_\_\_\_ करता है। रिक्त स्थान के लिए उपयुक्त शब्द कौन सा है?

- Ans ☒ A. पीउ - पीउ  
☒ B. पिया - पिया  
☒ C. काँव - काँव  
☒ D. कू - कू

Question ID : 9277593811  
Status : Answered  
Chosen Option : A

Q.3 विधान सभा का चुनाव एक निश्चित \_\_\_\_\_ के लिए होता है। रिक्त स्थान के लिए सर्वाधिक उपयुक्त शब्द कौन सा है?

- Ans ☒ A. अवधि  
☒ B. काल  
☒ C. क्षण  
☒ D. युग

Question ID : 9277593810  
Status : Answered  
Chosen Option : A

Q.4 कौन' सर्वनाम का परिमाणवाचक विशेषण होगा-

- Ans ☒ A. कितना  
☒ B. किसका  
☒ C. किस  
☒ D. कैसा

Question ID : 9277593809  
Status : Answered  
Chosen Option : A

Q.5 पगड़ी' किस प्रकार का शब्द है?

- Ans ☒ A. विदेशी  
☒ B. तत्सम  
☒ C. देशज  
☒ D. तद्भव

Question ID : 9277593806  
Status : Answered  
Chosen Option : D

Q.6 चिड़िया' किस प्रकार का शब्द है?

- Ans ☒ A. देशज  
☒ B. तद्भव  
☒ C. तत्सम  
☒ D. विदेशी

Question ID : 9277593807  
Status : Answered  
Chosen Option : B

Q.7 सदा प्रसन्न रहो।' वाक्य में क्रिया की वृत्ति है-

- Ans ☒ A. आज्ञापूरक  
☒ B. इच्छासूचक  
☒ C. संकेतसूचक  
☒ D. संदेहसूचक

Question ID : 9277593814

Status : Answered

Chosen Option : B

Q.8 सीता जा रही थी।' वाक्य का काल है -

- Ans ☒ A. अपूर्ण भूत  
☒ B. पूर्ण भूत  
☒ C. सामान्य भूत  
☒ D. संधिग्ध भूत

Question ID : 9277593813

Status : Answered

Chosen Option : D

Q.9 चुप्पा बहुत चालाक होता है।' अर्थ को व्यांजित करने वाली उपयुक्त लोकोक्ति कौन सी है?

- Ans ☒ A. फिसल पड़े तो हर गंगा  
☒ B. प्यासा कुएँ के पास जाता है  
☒ C. बहरा सो गहरा  
☒ D. भूख लगे तो घर की सूझी

Question ID : 9277593815

Status : Answered

Chosen Option : A

Q.10 हिन्दी में कुल कितने सर्वनाम हैं?

- Ans ☒ A. 9  
☒ B. 13  
☒ C. 11  
☒ D. 15

Question ID : 9277593808

Status : Answered

Chosen Option : C