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**

ENGINEERS adda247

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**

ENGINEERS adda247

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**

ENGINEERS adda247

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**

ENGINEERS adda247

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. π

Question ID : **9277593709**
Status : **Answered**
Chosen Option : **C**

ENGINEERS adda247

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

ENGINEERS adda247

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 : **--**

ENGINEERS adda247

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**

ENGINEERS adda247

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

Ans
- ✗ A. Ampere
- ✗ B. dB
- ✗ C. nA
- ✓ D. V/μs

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**

ENGINEERS adda247

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**

ENGINEERS adda247

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**

ENGINEERS adda247

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**

ENGINEERS adda247

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**

ENGINEERS adda247

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**

ENGINEERS adda247

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 Ω/V
- ✓ B. 1000 Ω/V
- ✗ C. 100 Ω/V
- ✗ D. 10000 Ω/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**

ENGINEERS adda247

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 electrodynamometer 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**

ENGINEERS adda247

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 : **--**

ENGINEERS adda247

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**

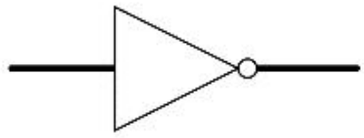
Q.82 **Which part of a motor needs maximum attention for maintenance?**

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

Question ID : **9277593744**
Status : **Answered**
Chosen Option : **A**

ENGINEERS adda247

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**

ENGINEERS adda247

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**

ENGINEERS adda247

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**

ENGINEERS adda247

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**

ENGINEERS adda247

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**

ENGINEERS adda247

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**

ENGINEERS adda247

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**

ENGINEERS adda247

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**

ENGINEERS adda247

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**

ENGINEERS adda247

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**

ENGINEERS adda247

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**

ENGINEERS adda247

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**

ENGINEERS adda247

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**

ENGINEERS adda247

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**

ENGINEERS adda247

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. Chalcopyrite
- ✗ 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**

ENGINEERS adda247

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**

ENGINEERS adda247

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**

ENGINEERS adda247

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**

ENGINEERS adda247

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**

ENGINEERS adda247

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**

ENGINEERS adda247

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**

ENGINEERS adda247

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: λ ≤ Ω, λ > £, π ≥ ϕ, £ > π

Conclusions:

I. Ω > ϕ
II. λ ≤ π

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.

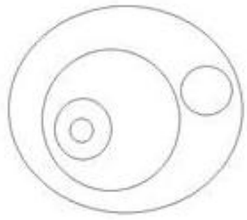
Question ID : **9277593797**
Status : **Answered**
Chosen Option : **A**

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

Universe, Earth, India, Gujarat, Bhilai

Ans

✗ A.



✓ B.

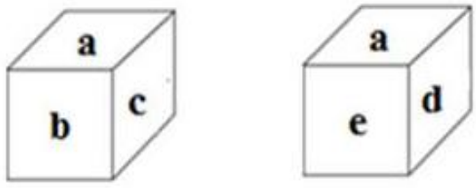
✗ C.

✗ D.

ENGINEERS adda247

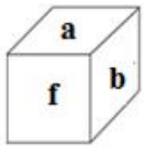
Question ID : **9277593801**
Status : **Answered**
Chosen Option : **B**

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?**

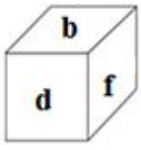


Ans

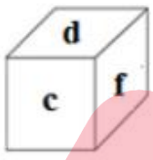
✗ A.



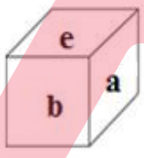
✓ B.



✗ C.



✗ D.



ENGINEERS
adda247

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

Ans

✗ A. 324

✗ B. 361

✓ C. 420

✗ D. 441

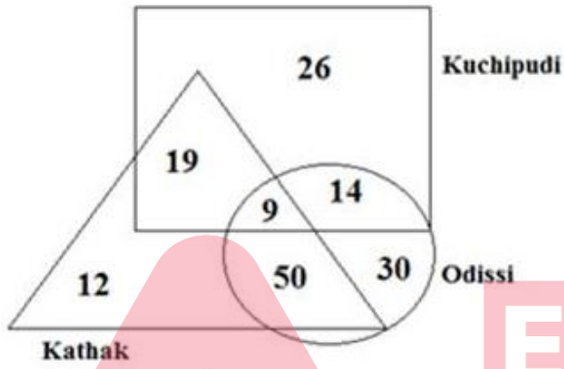
Question ID : **9277593790**
Status : **Answered**
Chosen Option : **C**

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.

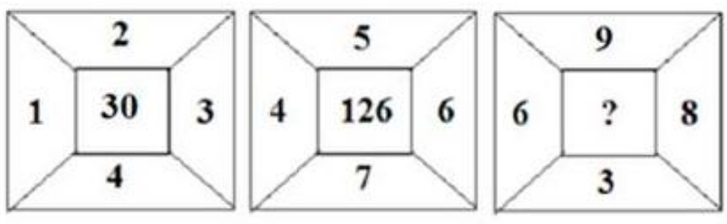


What is the number of students who practice both Odissi and Kuchipudi, but NOT Kathak?

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**

ENGINEERS adda247

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**

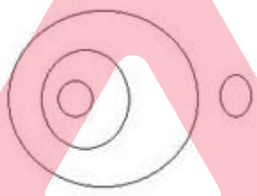
Q.9 **Select the Venn diagram that best represents the relationship between the following classes.**

Outdoor Games, Cricket, Chess, Hockey

Ans

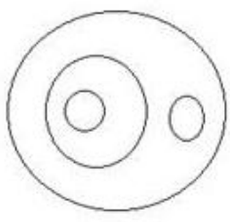
✘ A.

✘ B.



✔ C.

✘ D.



ENGINEERS adda247

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 ≥ R, R > T, T ≤ 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 ÷ 8 + 7 − 2 × 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**

ENGINEERS adda247

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 '×', '×' means '+', '+' means '÷', and '÷' means '–', then find the value of the following expression.**

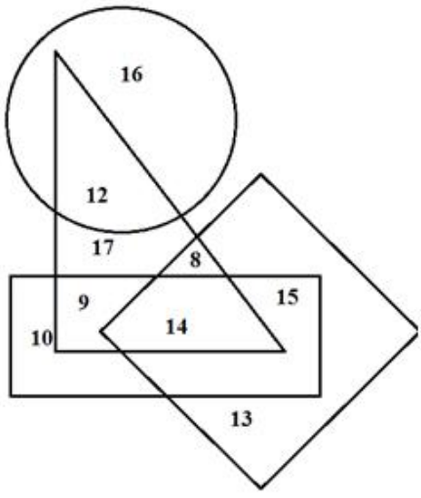
335 + 67 – 8 ÷ 21 × 9

Ans
- ✗ A. 52
- ✗ B. 231
- ✓ C. 28
- ✗ D. 169

Question ID : **9277593793**
Status : **Answered**
Chosen Option : **C**

ENGINEERS adda247

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

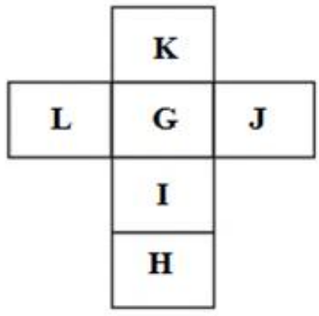
Question ID : **9277593803**
Status : **Answered**
Chosen Option : **B**

ENGINEERS adda247

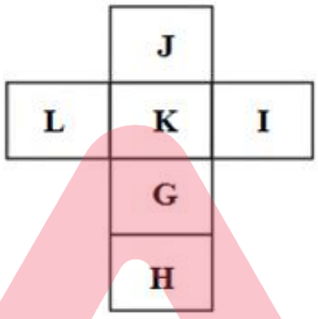
Q.18 **Two different positions of the same dice marked with the letters G, H, I, J, K and L are shown. This dice is formed by folding which of the following option figures?**

Ans

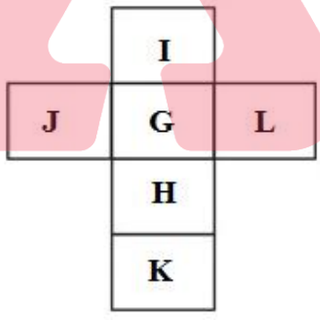
✔ A.



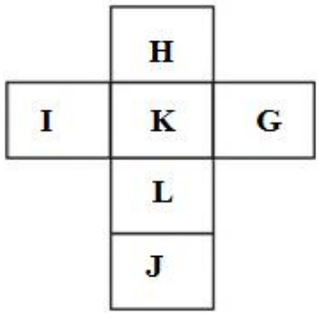
✘ B.



✘ C.



✘ D.



Question ID : **9277593805**
Status : **Answered**
Chosen Option : **A**

ENGINEERS adda247

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**

ENGINEERS adda247

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**

ENGINEERS adda247

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**

ENGINEERS adda247