GOVT. OF NCT OF DELHI
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Participant ID	www.exammix.com
Participant Name	
Test Center Name	Az Online Test Centre
Test Date	19/03/2021
Test Time	8:30 AM - 10:30 AM
Subject	Junior Engineer (Electrical)

Section : **Discipline1**

Q.1 **An amplifier has a voltage gain of 800 and β = 40. The power gain of the amplifier is:**

Ans
✔ 1. 32000
✘ 2. 3200
✘ 3. 20
✘ 4. 320

Question ID : **5406263581**

Q.2 **A lead acid battery fitted in a truck develops 14 V and has an internal resistance of 0.02 Ω. It is used to supply current to the head lights. If the total load is equal to 200 W, then the voltage drop in internal resistance is:**

Ans
✘ 1. 14.28 V
✔ 2. 0.28 V
✘ 3. 1.428 V
✘ 4. 0.028 V

Question ID : **5406263571**

Q.3 **The maximum peak to peak voltage of an AM wave is 20 mV and the minimum peak to peak voltage is 4 mV. The modulation factor is:**

Ans
✔ 1. 0.66
✘ 2. 2
✘ 3. 0.06
✘ 4. 5

Question ID : **5406263583**

Q.4 The value of series resistor that is required to limit the current through an LED to 10 mA with a forward voltage drop of 0.6 V when connected to a 20 V supply is:

Ans
✔ 1. 1.94 kΩ
✘ 2. 1.94 Ω
✘ 3. 194 kΩ
✘ 4. 19.4 kΩ

Question ID : **5406263579**

Q.5 The alternating voltage generated in the DC generator can be converted into direct voltage by a device called _____.

Ans
✘ 1. pole pitch
✔ 2. commutator
✘ 3. varactor
✘ 4. armature

Question ID : **5406263587**

Q.6 In a DC machine, each conductor lies at _____ to the magnetic flux and in the direction of its movement.

Ans
✘ 1. 120°
✔ 2. 90°
✘ 3. 0°
✘ 4. 180°

Question ID : **5406263588**

Q.7 If the voltage source has a very high internal impedance when compared to the external load impedance, then it can be considered as:

Ans
✘ 1. internal resistance
✔ 2. constant current source
✘ 3. constant voltage source
✘ 4. external resistance

Question ID : **5406263572**

Q.8 The maximum power dissipation of a transistor is 200 mW. If V_{ce} = 10 V, then the value of maximum collector current that can be allowed without destruction of the transistor is:

Ans
✘ 1. 2000 mA
✘ 2. 200 mA
✔ 3. 20 mA
✘ 4. 20 A

Question ID : **5406263582**

Q.9 The intrinsic stand-off ratio for a UJT is determined to be 0.6. If the inter-base resistance is 10 kΩ, then the values of R_{b1} and R_{b2} are:

Ans
✔ 1. 6 kΩ and 4 kΩ
✘ 2. 6 kΩ and 2 kΩ
✘ 3. 2 kΩ and 4 kΩ
✘ 4. 4 kΩ and 8 kΩ

Question ID : **5406263586**

Q.10 In a common base connection, IE = 2 mA, IC = 0.5 mA. Calculate the value of IB:

Ans
✘ 1. 1 mA
✘ 2. 4 mA
✔ 3. 1.5 mA
✘ 4. 0.5 mA

Question ID : **5406263580**

Q.11 A DC source generating 400 V has an internal resistance of 500 Ω. The value of load current when the load resistance is 50 Ω is:

Ans
✘ 1. 0.8
✘ 2. 1.25
✘ 3. 8
✔ 4. 0.72

Question ID : **5406263573**

Q.12 The value of charge on an electron is:

Ans
✘ 1. $1\ C$
✔ 2. $1.602 \times 10^{-19}\ C$
✘ 3. $1.5 \times 10^{-19}\ C$
✘ 4. $1.602 \times 10^{-12}\ C$

Question ID : **5406263575**

Q.13 A hot cathode gas triode is also called as:

Ans
✔ 1. thyratron
✘ 2. TRIAC
✘ 3. gas diode
✘ 4. thyristor

Question ID : **5406263574**

Q.14 If the input frequency of a sine wave applied to a half wave rectifier is 100 Hz, then the frequency of the output wave is:

Ans
- ✗ 1. 0 Hz
- ✗ 2. 200 Hz
- ✗ 3. 50 Hz
- ✓ 4. 100 Hz

Question ID : **5406263577**

Q.15 The armature of a DC generator has 10 slots for a two pole winding. The value of the number of slots/pole is:

Ans
- ✗ 1. 2
- ✗ 2. 10
- ✗ 3. 20
- ✓ 4. 5

Question ID : **5406263590**

Q.16 A half wave rectifier is used to supply 50 V DC to a resistive load of 80 Ω. The diode has a resistance of 12 Ω. The AC voltage required is:

Ans
- ✗ 1. cannot be found
- ✗ 2. 162 V
- ✓ 3. 180.6 V
- ✗ 4. 0

Question ID : **5406263578**

Q.17 If a 4 pole generator has 16 coils, then the number of slots is equal to:

Ans
- ✗ 1. 64
- ✗ 2. 4
- ✓ 3. 16
- ✗ 4. 8

Question ID : **5406263589**

Q.18 Which of the following is used as a thermionic emitter or as a cathode in an X-ray tube?

Ans
- ✗ 1. Photodiode
- ✗ 2. Oxide coated cathode
- ✗ 3. Thoriated tungsten
- ✓ 4. Tungsten

Question ID : **5406263576**

Q.19 The decimal number of the octal number 372 is:

Ans
✗ 1. 200
✗ 2. 215
✓ 3. 250
✗ 4. 210

Question ID : **5406263585**

Q.20 The equivalent binary number for the decimal number 23 is:

Ans
✗ 1. 10011
✓ 2. 10111
✗ 3. 1011
✗ 4. 101

Question ID : **5406263584**

Section : **Discipline2**

Q.1 The distribution factor for a single phase alternator having 6 slots/pole when all the slots are wound is:

Ans
✗ 1. 0.756
✗ 2. 0.837
✓ 3. 0.644
✗ 4. 0.545

Question ID : **5406263606**

Q.2 A 12-pole, 3-phase star connected alternator has 72 slots. If the flux per pole is 0.0988 Wb, then the speed of rotation if the frequency is 50 Hz is:

Ans
✗ 1. 600 rpm
✗ 2. 200 rpm
✗ 3. 400 rpm
✓ 4. 500 rpm

Question ID : **5406263607**

Q.3 A 4 pole, 50 Hz, single phase induction motor is running with a slip of 3.4 percent. The speed of the motor is:

Ans
✓ 1. 1449 rpm
✗ 2. 1200 rpm
✗ 3. 1000 rpm
✗ 4. 1500 rpm

Question ID : **5406263605**

Q.4 Multi strand conductors are preferred over solid conductors because they are:

Ans

✗ 1. Compact

✗ 2. Hygroscopic

✗ 3. Economical

✓ 4. Durable

Question ID : **5406263609**

Q.5 The reversal of current in a coil as the coil passes the brush axis is called:

Ans

✗ 1. motoring action

✗ 2. generator action

✗ 3. armature reaction

✓ 4. commutation

Question ID : **5406263592**

Q.6 Losses in a DC machine are mainly due to:

Ans

✗ 1. mechanical losses

✗ 2. iron losses

✓ 3. copper losses

✗ 4. friction and windage losses

Question ID : **5406263595**

Q.7 A 230 V DC shunt motor takes a no load current of 2 A and runs at 1200 rpm. If the full load current is 40 A and armature resistance is 0.25 Ω, then the speed on full load is:

Ans

✗ 1. 1500 rpm

✗ 2. 1250 rpm

✓ 3. 1150 rpm

✗ 4. 1200 rpm

Question ID : **5406263598**

Q.8 Which of the following is NOT a speed control method of a DC shunt motor?

Ans

✗ 1. Voltage control

✗ 2. Armature control

✗ 3. Flux control

✓ 4. Series parallel control

Question ID : **5406263593**

Q.9 For a 6 pole, 50 Hz, three phase induction motor, the speed will be:

Ans
✔ 1. 1000 rpm
✘ 2. 1500 rpm
✘ 3. 2000 rpm
✘ 4. 3000 rpm

Question ID : **5406263603**

Q.10 In a 50 kVA transformer, if the iron loss is 500 W and full load copper loss is 800 W, then the full load efficiency at 0.8 pf lagging is:

Ans
✘ 1. 100 percent
✘ 2. 94 percent
✘ 3. 96.6 percent
✔ 4. 96.85 percent

Question ID : **5406263601**

Q.11 A 2000/200 V, 20 kVA transformer has 66 turns in the secondary. The value of primary turns is:

Ans
✘ 1. 66
✘ 2. 606
✘ 3. 60
✔ 4. 660

Question ID : **5406263599**

Q.12 Impedance test in a transformer is used to determine:

Ans
✘ 1. only resistance
✘ 2. core losses
✘ 3. only reactance
✔ 4. full load copper losses

Question ID : **5406263600**

Q.13 _____ are normally used to connect pendant lamps.

Ans
✘ 1. Fan roses
✔ 2. Ceiling roses
✘ 3. Connectors
✘ 4. Pendant roses

Question ID : **5406263610**

Q.14 Which type of three phase transformer connection is used to step up to a high voltage?

Ans
✗ 1. Star-delta
✓ 2. Delta-star
✗ 3. Delta-delta
✗ 4. Star-star

Question ID : **5406263602**

Q.15 A 5 hp, 220 V shunt motor has a full load current of 20 A and an armature resistance of about 0.5 Ω. If this motor is directly switched on to supply, then it would take an armature current of:

Ans
✗ 1. 404 A
✗ 2. 11 A
✗ 3. 20 A
✓ 4. 440 A

Question ID : **5406263594**

Q.16 The maximum load (light and fan) that can be connected in one sub-circuit is:

Ans
✗ 1. 700 W
✗ 2. 500 W
✗ 3. 600 W
✓ 4. 800 W

Question ID : **5406263608**

Q.17 Which of the following speed control techniques is well suited for applications like passenger elevators?

Ans
✓ 1. Ward Leonard
✗ 2. Armature control
✗ 3. Flux control
✗ 4. Multiple voltage control

Question ID : **5406263596**

Q.18 The value of armature resistance in a DC machine is usually:

Ans
✓ 1. less than 1 Ω
✗ 2. less than 1 kΩ
✗ 3. more than 1 Ω
✗ 4. more than 1 kΩ

Question ID : **5406263591**

Q.19 The stator windings used by four speed squirrel cage induction motor is:

Ans
- ✗ 1. 1
- ✓ 2. 2
- ✗ 3. 4
- ✗ 4. 3

Question ID : **5406263604**

Q.20 The best way to produce reversing voltage to neutralise the reactance voltage is by using:

Ans
- ✗ 1. compensating winding
- ✗ 2. carbon brushes
- ✗ 3. equaliser rings
- ✓ 4. interpoles

Question ID : **5406263597**

Section : **Discipline3**

Q.1 The limiting volume of leakage current in electrical installation should be:

Ans
- ✗ 1. exceeding 1/5000
- ✓ 2. not exceeding 1/5000
- ✗ 3. exceeding 2/5000
- ✗ 4. not exceeding 2/5000

Question ID : **5406263612**

Q.2 An energy meter is designed to make 100 revolutions of disc for one unit of energy. The number of revolutions made by it when connected to a load carrying 40 A at 230 V and 0.4 pf for an hour is:

Ans
- ✓ 1. 368
- ✗ 2. 600
- ✗ 3. 356
- ✗ 4. 628

Question ID : **5406263625**

Q.3 Steel towers are required to be painted in order to:

Ans
- ✗ 1. prevent lightning
- ✗ 2. prevent moisture
- ✗ 3. prevent electric shock
- ✓ 4. prevent corrosion

Question ID : **5406263615**

Q.4 **The unit of magnetic field strength is:**

Ans

✗ 1. Wb

✗ 2. Wb/m

✓ 3. A/m

✗ 4. A

Question ID : **5406263620**

Q.5 **Tungsten is selected as filament material because of its:**

Ans

✗ 1. high temperature coefficient

✗ 2. high vapour pressure

✓ 3. high melting point

✗ 4. low resistivity

Question ID : **5406263614**

Q.6 **A 2 mA meter with an internal resistance of 100 Ω is to be converted to 150 mA ammeter. The value of power consumption of the meter is:**

Ans

✓ 1. 30 mW

✗ 2. 30 W

✗ 3. 13 W

✗ 4. 10 W

Question ID : **5406263629**

Q.7 If a voltmeter uses $4\frac{1}{2}$ digit display, then its resolution is:

Ans

✗ 1. 0.001

✗ 2. 0.1

✗ 3. 0.01

✓ 4. 0.0001

Question ID : **5406263628**

Q.8 **The type of starter recommended for a 20 kW squirrel cage induction motor is:**

Ans

✗ 1. star - delta starter

✗ 2. Direct On line Starter

✓ 3. auto - transformer starter

✗ 4. stator resistance starter

Question ID : **5406263613**

Q.9 Which of the following is NOT the equipment used in substations?

Ans
- ✔ 1. Resistors
- ✘ 2. Busbars
- ✘ 3. Circuit breakers
- ✘ 4. Insulators

Question ID : **5406263616**

Q.10 A 2 mA meter with an internal resistance of 100 Ω is to be converted to 0 – 150 mA ammeter. The value of shunt resistance required is:

Ans
- ✘ 1. 1.5
- ✔ 2. 1.3
- ✘ 3. 2
- ✘ 4. 2.3

Question ID : **5406263626**

Q.11 To provide service connection to a consumer having a load of 1 kW, the size of the copper conductor should be:

Ans
- ✘ 1. 20 SWG
- ✔ 2. 10 SWG
- ✘ 3. 15 SWG
- ✘ 4. 12 SWG

Question ID : **5406263618**

Q.12 The unit of mass is:

Ans
- ✘ 1. Metre
- ✔ 2. Kilogram
- ✘ 3. Mole
- ✘ 4. Second

Question ID : **5406263619**

Q.13 Which of the following surge diverters is used for the protection against dangerous voltages?

Ans
- ✘ 1. Expulsion type arrester
- ✔ 2. Thyrite arrester
- ✘ 3. Horn gap arrester
- ✘ 4. Electrolytic arrester

Question ID : **5406263617**

Q.14 Which of the following is NOT an AC bridge?

Ans
- ✔ 1. Kelvin's bridge
- ✘ 2. Capacitance comparison bridge
- ✘ 3. Hay's bridge
- ✘ 4. Anderson's bridge

Question ID : **5406263630**

Q.15 Bridge circuits work on the _____.

Ans
- ✘ 1. null principle
- ✘ 2. balancing principle
- ✔ 3. null indication principle
- ✘ 4. KVL

Question ID : **5406263621**

Q.16 The average resistance of a human body is:

Ans
- ✔ 1. 1000 Ω
- ✘ 2. 470 Ω
- ✘ 3. 570 Ω
- ✘ 4. 10 Ω

Question ID : **5406263611**

Q.17 The unit of sensitivity of a wheatstone bridge is:

Ans
- ✘ 1. degrees/V
- ✘ 2. radians/V
- ✘ 3. mm
- ✔ 4. radians/μA

Question ID : **5406263622**

Q.18 Which of the following is NOT a detector used in AC bridges?

Ans
- ✘ 1. Vibration galvanometers
- ✘ 2. Tuneable amplifiers
- ✔ 3. Vibrational watt meters
- ✘ 4. Headphones

Question ID : **5406263624**

Q.19 A 11000 : 110 potential transformer is used along with a voltmeter reading 87.5 V. The line voltage is:

Ans
✗ 1. 8705 V
✗ 2. 8075 V
✓ 3. 8750 V
✗ 4. 875 V

Question ID : **5406263627**

Q.20 The bridge that is used to measure the resistance of motor winding is:

Ans
✓ 1. Wheatstone bridge
✗ 2. De-sauty's bridge
✗ 3. Kelvin's bridge
✗ 4. Maxwell's bridge

Question ID : **5406263623**

Section : **Discipline4**

Q.1 Sensitivity of voltmeters is expressed in:

Ans
✗ 1. kΩ
✗ 2. Ω/A
✗ 3. kΩ/A
✓ 4. kΩ/V

Question ID : **5406263633**

Q.2 A three phase, 4 pole, 400 V, 50 Hz induction motor runs with a speed of 1440 rpm. The slip is:

Ans
✓ 1. 4 percent
✗ 2. 5 percent
✗ 3. 6 percent
✗ 4. 3 percent

Question ID : **5406263636**

Q.3 The permeability of free space in the CGS system is:

Ans
✗ 1. 10^{-7}
✓ 2. 1
✗ 3. 0
✗ 4. 10^{-12}

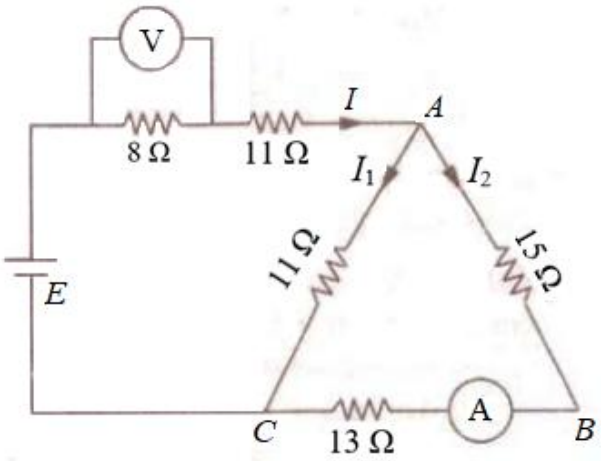
Question ID : **5406263631**

Q.4 The conductors of a two-wire transmission line (4 km long) are spaced 45 cm between centres. If each conductor has a diameter of 1.5 cm, then calculate the capacitance of the line.

Ans
✗ 1. 0.037×10^{-6}F
✗ 2. 27×10^{-6}F
✓ 3. 0.027×10^{-6}F
✗ 4. 0.027×10^{-8}F

Question ID : **5406263650**

Q.5 A battery of unknown emf is connected across resistances as shown in the given figure. The voltage drop across the 8 Ω resistor is 20 V. The current reading in the ammeter is:



Ans
✗ 1. 0.5 A
✗ 2. 0.8 A
✗ 3. 0.9 A
✓ 4. 0.7 A

Question ID : **5406263643**

Q.6 The most commonly used method for the measurement of high resistance is:

Ans
✗ 1. Wheatstone bridge method
✗ 2. Direct deflection method
✗ 3. Carey foster bridge method
✓ 4. Megger method

Question ID : **5406263640**

Q.7 A parallel-plate capacitor has plates 0.15 mm apart and dielectric with relative permittivity of 3. Find the electric field intensity and the voltage between plates if the surface charge is $5 \times 10^{-4} \mu C/cm^2$.

Ans

✗ 1. 1.82 V

✗ 2. 4.82 V

✗ 3. 5.82 V

✓ 4. 2.82 V

Question ID : **5406263648**

Q.8 **Under resonance conditions, the torque acting on a moving coil:**

Ans

✗ 1. gets reduced to half

✓ 2. is 0

✗ 3. gets doubled

✗ 4. is 1

Question ID : **5406263632**

Q.9 **Which of the following devices can be used to determine the sequence of each of the three phases of a three phase supply?**

Ans

✗ 1. Positive sequence indicator

✗ 2. Zero sequence indicator

✓ 3. Phase sequence indicator

✗ 4. Negative sequence indicator

Question ID : **5406263635**

Q.10 **Which of the following is NOT a type of digital voltmeter?**

Ans

✗ 1. Integrating type digital voltmeter

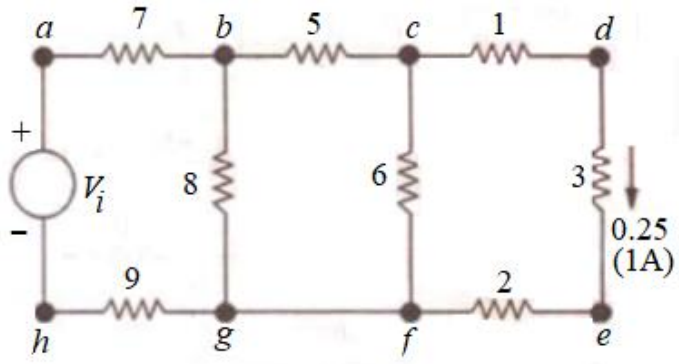
✓ 2. Sine type digital voltmeter

✗ 3. Ramp type digital voltmeter

✗ 4. Continuous balance type digital voltmeter

Question ID : **5406263641**

Q.11 For the simple ladder network in the given figure, the input voltage V_i which produces a current of 0.25 A in the 3 Ω resistor is _____. (All resistances are in Ω)



Ans
1. 50 V
2. 20 V
3. 30 V
4. 40 V

Question ID : **5406263644**

Q.12 A cable is 300 km long and has a conductor of 0.5 cm in diameter with an insulation covering of 0.4 cm thickness. The capacitance of the cable if relative permittivity of insulation is 4.5 is:

Ans
1. 100 μF
2. 78 μF
3. 90 μF
4. 88 μF

Question ID : **5406263649**

Q.13 A coil consists of 2000 turns of copper wire having a cross-sectional area of 0.8 mm^2 .The mean length per turn is 80 cm and the resistivity of copper is 0.02 μΩ/m. The resistance of the coil when connected across 110 V DC supply is:

Ans
1. 80 Ω
2. 70 Ω
3. 60 Ω
4. 40 Ω

Question ID : **5406263637**

Q.14 The unit of conductivity is:

Ans
1. Resistance/m^2
2. Siemens/m
3. Siemens/m^2
4. Resistance/m

Question ID : **5406263638**

Q.15 A current of 80 A flows for 1 hour in a resistance across which there is a voltage of 2 V. The value of velocity with which a weight of 1 tonne must move in order that its kinetic energy shall be equal to the energy dissipated in the resistance is:

Ans
✗ 1. 1000 m/s
✗ 2. 1300 m/s
✗ 3. 1200 m/s
✓ 4. 1152 m/s

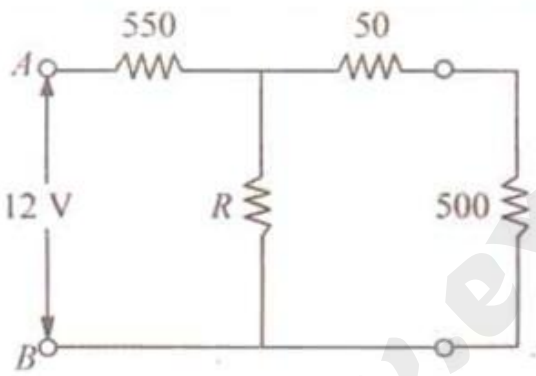
Question ID : **5406263645**

Q.16 A capacitor of 4 μF capacitance is charged to a p.d. of 400 V and then connected in parallel with an uncharged capacitor of 2 μF capacitance. The p.d. across the parallel capacitors is:

Ans
✓ 1. 267 V
✗ 2. 260 V
✗ 3. 263 V
✗ 4. 262 V

Question ID : **5406263646**

Q.17 The value of unknown resistor *R* in the given figure is _____, if the voltage drop across the 500 Ω resistor is 2.5 V.



Ans
✗ 1. 250 Ω
✓ 2. 233 Ω
✗ 3. 270 Ω
✗ 4. 240 Ω

Question ID : **5406263642**

Q.18 Windings of potential transformers are insulated using:

Ans
✗ 1. paint
✗ 2. paper
✗ 3. coir
✓ 4. cotton tape

Question ID : **5406263634**

Q.19 **Errors due to human mistakes in reading or in using instruments are called:**

Ans

✗ 1. instrumental errors

✓ 2. gross errors

✗ 3. random errors

✗ 4. systematic errors

Question ID : **5406263639**

Q.20 Two brass plates are arranged horizontally, one 2 cm above the other and the lower plate is earthed. The plates are charged to a difference of potential of 6,000 volts. A drop of oil with an electric charge of 1.6×10^{-19}C is in equilibrium between the plates so that it neither rises nor falls. The mass of the drop is:

Ans

✗ 1. 4.89×10^{-18} kg

✗ 2. 4.89×10^{-16} kg

✓ 3. 4.89×10^{-15} kg

✗ 4. 4.89×10^{-20} g

Question ID : **5406263647**

Section : **Discipline5**

Q.1 **An air-capacitor of capacitance 0.005 μF is connected to a direct voltage of 500 V, is disconnected and then immersed in oil with a relative permittivity of 2.5. The energy stored in the capacitor before immersion is:**

Ans

✗ 1. 62.5×10^{-6} J

✗ 2. 6.25×10^{-6} J

✓ 3. 625×10^{-6} J

✗ 4. 625×10^{-8} J

Question ID : **5406263670**

Q.2 **The conductors of a two-wire transmission line (4 km long) are spaced 45 cm between centres. If each conductor has a diameter of 1.5 cm, then the capacitance of the line is:**

Ans

✗ 1. 0.272 μF

✗ 2. 0.72 μF

✓ 3. 0.0272 μF

✗ 4. 272 μF

Question ID : **5406263667**

Q.3 Three resistors are connected in series across a 12-V battery. The first resistor has a value of 1 Ω, second has a voltage drop of 4 V and the third has a power dissipation of 12 W. The value of the circuit current is:

Ans
✔ 1. both 2 A and 6 A
✘ 2. 6 A
✘ 3. 12 A
✘ 4. 2 A

Question ID : **5406263665**

Q.4 A 60 W light bulb has a current of 0.5 A flowing through it. The number of electrons passing through a cross-section of the filament is:

Ans
✘ 1. 3.6×10^{18} electrons/s
✘ 2. 3.1×10^{12} electrons/s
✘ 3. 3.1×10^{16} electrons/s
✔ 4. 3.1×10^{18} electrons/s

Question ID : **5406263656**

Q.5 A capacitor-type stored-energy welder is to deliver the same heat to a single weld as a conventional welder that draws 20 kVA at 0.8 pf for 0.0625 second/weld. If C =2000 μF, then the voltage to which it is charged is:

Ans
✘ 1. 500 V
✔ 2. 1000 V
✘ 3. 800 V
✘ 4. 1200 V

Question ID : **5406263669**

Q.6 A liquid resistor consists of two concentric metal cylinders of diameters D = 35 cm and d = 20 cm respectively with water of specific resistance ρ = 8000 Ω cm between them. The length of both cylinders is 60 cm. The resistance of the liquid resistor is:

Ans
✘ 1. 118.5 Ω
✘ 2. 11.85 kΩ
✔ 3. 11.85 Ω
✘ 4. 12 Ω

Question ID : **5406263668**

Q.7 What is the maximum safe current flow in a 47 Ω, 2 W resistor?

Ans
✔ 1. 0.21A
✘ 2. 0.4A
✘ 3. 0.3A
✘ 4. 0.1A

Question ID : **5406263660**

Q.8 A Wheatstone bridge ABCD is arranged as follows:

AB = 20 Ω, BC = 5 Ω, CD = 4 Ω and DA = 10 Ω. A galvanometer of resistance 6 Ω is connected between B and D. A 100 volt supply of negligible resistance is connected between A and C with A positive. The magnitude of the galvanometer current is:

Ans
✗ 1. 0.8 A
✗ 2. 2.4 A
✓ 3. 0.667 A
✗ 4. 1 A

Question ID : **5406263664**

Q.9 The unit of magneto motive force is:

Ans
✗ 1. A/m
✓ 2. AT
✗ 3. AT/wb
✗ 4. AT/m

Question ID : **5406263652**

Q.10 A capacitor of 1 μF and resistance 82 kΩ are connected in series with an emf of 100 V. The magnitude of energy stored is:

Ans
✗ 1. 0.25 J
✗ 2. 0.025 J
✓ 3. 0.0025 J
✗ 4. 25 J

Question ID : **5406263651**

Q.11 A 50 Ω resistor is in parallel with a 100 ohm resistor. The current in the 50 Ω resistor is 7.2 A. What is the value of the third resistance to be added in parallel to make the line current 12.1 A?

Ans
✓ 1. 277 Ω
✗ 2. 280 Ω
✗ 3. 300 Ω
✗ 4. 350 Ω

Question ID : **5406263663**

Q.12 A coil has a resistance of 5.2 ohms; the resistance has to be reduced to 5 Ω by connecting a shunt across the coil. If this shunt is made of Manganin wire of diameter 0.025 cm, then the length of wire required is_____. (Specific resistance for Manganin is 47×10^{-8} Ω × m.)

Ans
✗ 1. 18 m
✓ 2. 13.55 m
✗ 3. 14 m
✗ 4. 20 m

Question ID : **5406263662**

Q.13 A 300 V energy source delivers 500 mA for 1 hour. The amount of energy represented is:

Ans
- ✗ 1. 540 m J
- ✗ 2. 54 k J
- ✓ 3. 540 k J
- ✗ 4. 540 J

Question ID : **5406263658**

Q.14 The maximum voltage that can be applied across a 100 Ω, 10 W resistor in order to keep within the resistor's power rating is:

Ans
- ✓ 1. 31.6 V
- ✗ 2. 15 V
- ✗ 3. 35 V
- ✗ 4. 20 V

Question ID : **5406263661**

Q.15 An electric kettle needs six minutes to boil 2 kg of water from the initial temperature of 20°C. The cost of electrical energy required for this operation is 12 paise. The rate being 40 paise per kWh. The kW-rating is:

Ans
- ✗ 1. 5 kW
- ✗ 2. 4 kW
- ✓ 3. 3 kW
- ✗ 4. 8 kW

Question ID : **5406263666**

Q.16 An aircraft has a wing span of 56 m. It is flying horizontally at a speed of 810 km/h and the vertical component of earth's magnetic field is 4×10^{-4} Wb/m^2. The potential difference between the wing tips of the aircraft is:

Ans
- ✗ 1. 6 V
- ✗ 2. 4 V
- ✗ 3. 8 V
- ✓ 4. 5 V

Question ID : **5406263653**

Q.17 A current of 10 A flows through a resistor for 10 minutes and the power dissipated by the resistor is 100 watts. The p.d. across the resistor is:

Ans
- ✗ 1. 15 V
- ✓ 2. 10 V
- ✗ 3. 8 V
- ✗ 4. 12 V

Question ID : **5406263659**

Q.18 The amount of work done by an electric energy source with a potential difference of 3 kV that delivers a current of 1 A for 1 minute is:

Ans
✗ 1. 180 J
✗ 2. 150 J
✗ 3. 150 kJ
✓ 4. 180 kJ

Question ID : **5406263657**

Q.19 A solenoid 70 cm in length and of 2100 turns has a radius of 4.5 cm. A second coil of 750 turns is wound upon the middle part of the solenoid. The mutual inductance between the two coils is:

Ans
✗ 1. 20 mH
✓ 2. 18 mH
✗ 3. 14 mH
✗ 4. 16 mH

Question ID : **5406263655**

Q.20 A coil wound on an iron core of permeability 400 has 150 turns and a cross sectional area of 5 cm^2. Given that a steady current of 3 mA produces a magnetic field of 10 lines/cm^2 when air is present as the medium. The inductance of the coil is:

Ans
✗ 1. 5 H
✗ 2. 8 H
✗ 3. 4 H
✓ 4. 10 H

Question ID : **5406263654**

Section : **Discipline6**

Q.1 A device which taps electrical energy from the electric power system is called _____.

Ans
✗ 1. supply
✗ 2. Source
✓ 3. Load
✗ 4. Signal

Question ID : **5406263676**

Q.2 A generating station has a connected load of 43 MW and a maximum demand of 20 MW; the units generated being 61.5 × 10^6 per annum. Its demand factor is:

Ans
✓ 1. 0.465
✗ 2. 460
✗ 3. 0.265
✗ 4. 465

Question ID : **5406263678**

Q.3 A transformer costing Rs. 90,000 has a useful life of 20 years. The annual depreciation charge using straight line method is _____. (Assume the salvage value of the equipment to be Rs. 10,000.)

Ans
✗ 1. Rs. 2,000/-
✗ 2. Rs. 8,000/-
✗ 3. Rs. 6,000/-
✓ 4. Rs. 4,000/-

Question ID : **5406263683**

Q.4 The maximum demand on a power station is 100 MW. If the annual load factor is 40 percent, then the total energy generated in a year is:

Ans
✗ 1. 3504×10^6 kWh
✓ 2. 3504×10^5 kWh
✗ 3. 3500×10^5 kWh
✗ 4. 3504×10^8 kWh

Question ID : **5406263677**

Q.5 An electromagnet of resistance 12.4 Ω requires a current of 1.5 A to operate it. The required voltage is:

Ans
✗ 1. 20 V
✗ 2. 16.7 V
✗ 3. 17 V
✓ 4. 18.6 V

Question ID : **5406263689**

Q.6 A searchlight takes 100 A at 80 V. It is to be operated from a 220 V supply. Find the value of the resistor to be connected in series.

Ans
✗ 1. 14 k Ω
✗ 2. 1.4 k Ω
✗ 3. 14 Ω
✓ 4. 1.4 Ω

Question ID : **5406263690**

Q.7 The unvarying load which occurs almost the whole day on the station is known as:

Ans
✗ 1. peak load
✗ 2. top load
✗ 3. bottom load
✓ 4. base load

Question ID : **5406263681**

Q.8 A power station has a maximum demand of 15000 kW. The annual load factor is 50 percent and plant capacity factor is 40 percent. The reserve capacity of the plant is:

Ans
1. 375 kW
2. 3750 kW
3. 350 kW
4. 3450 kW

Question ID : **5406263679**

Q.9 A force of 0.032 N is required to move a charge of 42 μC in an electric field between two points 25 cm apart. The potential difference that exists between the two points is:

Ans
1. 1.9 V
2. 19 V
3. 119 V
4. 190 V

Question ID : **5406263672**

Q.10 A 3-phase line has conductors 2 cm in diameter spaced equilaterally 1 m apart. If the dielectric strength of air is 30 kV (max) per cm, then the disruptive critical voltage for the line is _____. (Take air density factor $\delta = 0.952$ and irregularity factor $m_o = 0.9$.)

Ans
1. 160 kV
2. 140 kV
3. 150 kV
4. 145 kV

Question ID : **5406263687**

Q.11 The percentage saving in copper feeder if the line voltage in a 2-wire DC system is raised from 220 V to 500 V for the same power transmitted over the same distance and having the same power loss is:

Ans
1. 78.64 percent
2. 84.64 percent
3. 85.64 percent
4. 80.64 percent

Question ID : **5406263686**

Q.12 A single phase line has two parallel conductors 2 metres apart. The diameter of each conductor is 1.2 cm. Calculate the loop inductance per km of the line.

Ans
1. 2.423 H
2. 24.23 mH
3. 242.3 mH
4. 2.423 mH

Question ID : **5406263688**

Q.13 A 100 MW power stations delivers 100 MW for 2 hours, 50 MW for 8 hours and is shut down for the rest of each day. It is also shut down for maintenance for 60 days each year. The annual load factor is:

Ans
- ✗ 1. 40 percent
- ✓ 2. 21 percent
- ✗ 3. 15 percent
- ✗ 4. 50 percent

Question ID : **5406263680**

Q.14 The cosine of the angle between voltage and current in an AC circuit is known as:

Ans
- ✗ 1. diversity factor
- ✓ 2. power factor
- ✗ 3. load factor
- ✗ 4. power

Question ID : **5406263685**

Q.15 A consumer has a maximum demand of 200 kW at 40 percent load factor. If the tariff is Rs. 100 per kW of maximum demand plus 10 paise per kWh, then the overall cost per kWh is:

Ans
- ✗ 1. 14 paise
- ✗ 2. 15 paise
- ✓ 3. 12.85 paise
- ✗ 4. 13.85 paise

Question ID : **5406263684**

Q.16 A 100 MW steam station uses coal of calorific value 6400 kcal/kg. Thermal efficiency of the station is 30 percent and electrical efficiency is 92 percent. The coal consumption per hour when the station is delivering its full rated output is:

Ans
- ✗ 1. 4868 kg
- ✓ 2. 48,687 kg
- ✗ 3. 49,000 kg
- ✗ 4. 486 kg

Question ID : **5406263674**

Q.17 Twenty-seven spherical drops, each of radius 3 mm and carrying 10^{-12}C of charge are combined to form a single drop. The capacitance of the bigger drop is:

Ans
- ✗ 1. 1μF
- ✓ 2. 1pF
- ✗ 3. 1F
- ✗ 4. 10 pF

Question ID : **5406263673**

Q.18 A resistance R and a 4 μF capacitor are connected in series across a 200 V DC supply. Across the capacitor is a neon lamp that strikes (glows) at 120 V. The value of R to make the lamp strike (glow) 5 seconds after it is switched off is:

Ans
- ✗ 1. 136 MΩ
- ✗ 2. 1.36 Ω
- ✗ 3. 1.36 kΩ
- ✓ 4. 1.36 MΩ

Question ID : **5406263671**

Q.19 When the load elements of a load curve are arranged in the order of descending magnitudes, the curve thus obtained is called as _____.

Ans
- ✗ 1. load incremental curve
- ✗ 2. load forecasting curve
- ✓ 3. load duration curve
- ✗ 4. load detrimental curve

Question ID : **5406263675**

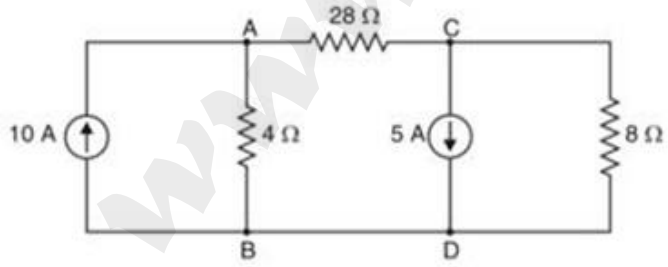
Q.20 The value of diversity factor in an interconnected grid system:

Ans
- ✗ 1. remains constant
- ✓ 2. increases
- ✗ 3. decreases
- ✗ 4. is negative

Question ID : **5406263682**

Section : **Discipline7**

Q.1 Find the current in a 28 Ω resistor in the circuit shown in the given figure:



Ans
- ✓ 1. 2A
- ✗ 2. 6A
- ✗ 3. 8A
- ✗ 4. 4A

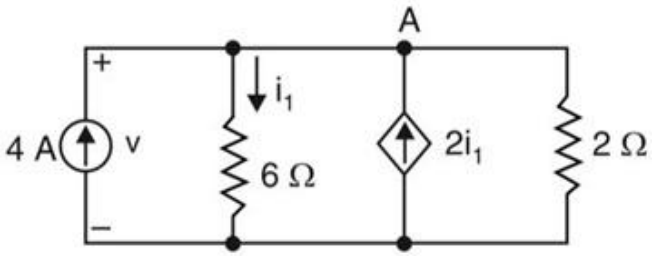
Question ID : **5406263694**

Q.2 A class B amplifier uses V_{cc} = 10 V and drives a load of 10 Ω. The end point values of the AC load line are:

Ans
✗ 1. 50 mA and 5 V
✗ 2. 500 A and 5 V
✗ 3. 5 mA and 5 V
✓ 4. 500 mA and 5 V

Question ID : **5406263707**

Q.3 The value of v in the circuit shown in the given figure is:



Ans
✗ 1. 15 V
✓ 2. 12 V
✗ 3. 10 V
✗ 4. 20 V

Question ID : **5406263695**

Q.4 A power transistor working in class A operation has zero signal power dissipation of 10 W. If the AC output power is 4 W, then its collector efficiency is:

Ans
✗ 1. 30 Percent
✓ 2. 40 Percent
✗ 3. 60 Percent
✗ 4. 45 Percent

Question ID : **5406263702**

Q.5 For a class B amplifier using a supply of V_{cc} = 12 V and driving a load of 8 Ω, the maximum load power is:

Ans
✗ 1. 2 W
✓ 2. 2.25 W
✗ 3. 3.35 W
✗ 4. 3 W

Question ID : **5406263706**

Q.6 The unstable condition where the collector current rises and continues to increase is:

Ans
✔ 1. thermal runway
✘ 2. heat sink
✘ 3. heat runaway
✘ 4. thermal increase

Question ID : **5406263703**

Q.7 The AC base voltage change of 1 mV produces an AC emitter current change of 50 µA. The emitter diode has an AC resistance of:

Ans
✔ 1. 20 Ω
✘ 2. 100 Ω
✘ 3. 50 Ω
✘ 4. 30 Ω

Question ID : **5406263700**

Q.8 A power transistor dissipates 4W. If Tj(max) = 90° C, then the maximum ambient temperature at which it operates is _____. (Given θ =10° c/w.)

Ans
✔ 1. 50° C
✘ 2. 60° C
✘ 3. 100° C
✘ 4. 80° C

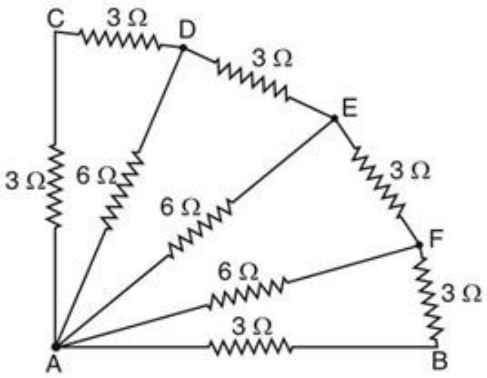
Question ID : **5406263705**

Q.9 A photo diode is exposed to light with an illumination of 2.5 mW/cm^2. If the sensitivity of the photo diode for the given conditions is 37.4 $\mu A/mW/cm^2$, then the reverse current through the device is:

Ans
✘ 1. 9.35 µA
✘ 2. 93.5 A
✘ 3. 935 µA
✔ 4. 93.5 µA

Question ID : **5406263697**

Q.10 All the resistances in the given figure are in ohms. The effective resistance between the points A and B is:



Ans

✔ 1. 2 Ω

✘ 2. 5 Ω

✘ 3. 3 Ω

✘ 4. 4 Ω

Question ID : **5406263693**

Q.11 The metal sheet that serves to dissipate the additional heat from the power transistor is:

Ans

✘ 1. heat metal

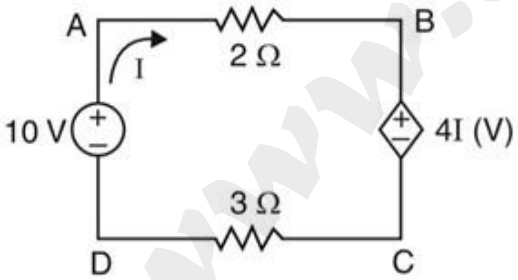
✔ 2. heat sink

✘ 3. dissipater

✘ 4. absorber

Question ID : **5406263704**

Q.12 The power delivered by the dependent-source in the given figure is:



Ans

✔ 1. −4.93 W

✘ 2. −1.11 W

✘ 3. 1.11 W

✘ 4. 4.93 W

Question ID : **5406263696**

Q.13 A 100 watt, 250 V lamp is connected in parallel with an unknown resistance R across a 250 V supply. The total power dissipated in the circuit is 1100 watts. The value of unknown resistance is _____. (Assume the resistance of the lamp remains unaltered.)

Ans
✔ 1. 62.5 Ω
✘ 2. 65 Ω
✘ 3. 60 Ω
✘ 4. 70 Ω

Question ID : **5406263691**

Q.14 In an RC coupled amplifier, the AC voltage across load RL = 100 Ω has a peak to peak value of 18 V. The maximum possible AC load power is:

Ans
✘ 1. 405 kW
✘ 2. 40.5 mW
✔ 3. 405 mW
✘ 4. 405 W

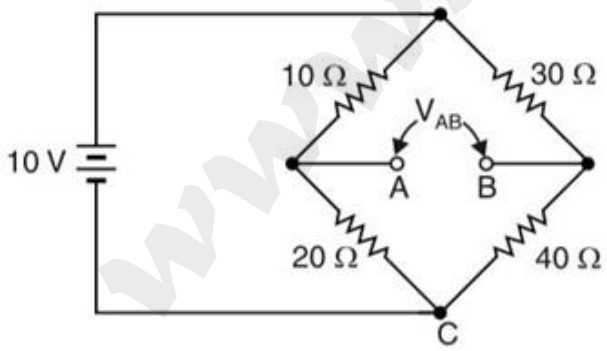
Question ID : **5406263701**

Q.15 Voltage gain of an amplifier without feedback is 3000. The voltage gain of the amplifier, if negative voltage feedback is introduced in the circuit is: (Given that feedback fraction mv = 0.01).

Ans
✘ 1. 31
✘ 2. 80
✘ 3. 41
✔ 4. 97

Question ID : **5406263708**

Q.16 The voltage V_{AB} in the circuit shown in the given figure is:



Ans
✘ 1. 0.7 V
✘ 2. 0.1 V
✔ 3. 0.9 V
✘ 4. 0.8 V

Question ID : **5406263692**

Q.17 According to the Indian system of frequency, the frequency at which most of the domestic and industrial loads operate is:

Ans
- ✔ 1. 50 Hz
- ✘ 2. 40 Hz
- ✘ 3. 60 Hz
- ✘ 4. 100 Hz

Question ID : **5406263699**

Q.18 Which of the following is NOT a method of control of CRO?

Ans
- ✔ 1. Current control
- ✘ 2. Intensity control
- ✘ 3. Vertical position control
- ✘ 4. Horizontal position control

Question ID : **5406263710**

Q.19 A transistor has Ic(max) = 500 mA and βmax = 300, the maximum allowable value of base current for the device is:

Ans
- ✘ 1. 16.7 mA
- ✘ 2. 167 A
- ✔ 3. 1.67 mA
- ✘ 4. 1.67 A

Question ID : **5406263698**

Q.20 An SCR has a circuit fusing rating of 50 A^2. The device is being used in a circuit where it could be subjected to a 100 A surge. The maximum allowable duration of such surge is:

Ans
- ✘ 1. 10 ms
- ✘ 2. 10 s
- ✔ 3. 5 ms
- ✘ 4. 5 s

Question ID : **5406263709**

Section : **Discipline8**

Q.1 Power factor of a filament lamp is:

Ans
- ✘ 1. 0.5 lagging
- ✔ 2. Unity
- ✘ 3. 0.8 lagging
- ✘ 4. 0.7 leading

Question ID : **5406263711**

Q.2 The voltage drop at the cathode of a mercury arc rectifier is usually:

Ans
- ✗ 1. 0.4 to 0.8 V
- ✓ 2. 5 to 6 V
- ✗ 3. 1 to 2 V
- ✗ 4. 8 to 10 V

Question ID : **5406263720**

Q.3 The suburban train operating voltage in case of direct current system is:

Ans
- ✓ 1. 600 -750 V
- ✗ 2. 15 V
- ✗ 3. 24 V
- ✗ 4. 220 V

Question ID : **5406263712**

Q.4 For induction furnaces, in case of high frequency power supply _____ can be used.

Ans
- ✗ 1. multiphase transformer
- ✗ 2. current transformer
- ✗ 3. potential transformer
- ✓ 4. MG set

Question ID : **5406263718**

Q.5 The electrode in a helium arc welding is made of:

Ans
- ✗ 1. silicon steel
- ✗ 2. lead
- ✓ 3. tungsten
- ✗ 4. carbon

Question ID : **5406263714**

Q.6 Which of the following metals is used in the process of galvanisation?

Ans
- ✗ 1. Mica
- ✓ 2. Zinc
- ✗ 3. Copper
- ✗ 4. Aluminium

Question ID : **5406263715**

Q.7 In which of the following cities do tram services exist?

Ans
✗ 1. Bangalore
✗ 2. Chennai
✓ 3. Kolkata
✗ 4. Delhi

Question ID : **5406263716**

Q.8 ERW pipes are designed using:

Ans
✗ 1. gas welding
✓ 2. electrical resistance welding
✗ 3. induction welding
✗ 4. thermal welding

Question ID : **5406263713**

Q.9 Cinema projectors use:

Ans
✗ 1. mercury lamp
✗ 2. filament lamp
✓ 3. carbon arc lamp
✗ 4. Incandescent light bulb

Question ID : **5406263717**

Q.10 A rectifier is an example of:

Ans
✓ 1. non-linear component
✗ 2. bilateral component
✗ 3. linear component
✗ 4. passive component

Question ID : **5406263719**

Section : **General English1**

Q.1 Select the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No substitution required'.

The strongest silk, however, <u>are made by</u> caterpillars that refuse to be domesticated.

Ans
✗ 1. are made up by
✓ 2. is made by
✗ 3. are made of
✗ 4. No substitution required

Question ID : **5406263734**

Q.2 **Identify the segment in the sentence which contains the grammatical error from the given options.**

Her daughter is sick but it can't take the day off from work.

Ans
- ✔ 1. it can't
- ✘ 2. from work.
- ✘ 3. the day off
- ✘ 4. Her daughter

Question ID : **5406263722**

Q.3 **Select the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No substitution required'.**

The dark expression <u>left his face</u> and a trace of coolness lit up in his grey eyes.

Ans
- ✘ 1. has left his face
- ✘ 2. leave his face
- ✘ 3. have left his face
- ✔ 4. No substitution required

Question ID : **5406263735**

Q.4 **Out of the given four sentences, choose the one which is grammatically correct.**

Ans
- ✘ 1. He has been trying to solve this sum from the last two hours
- ✘ 2. He have been trying to solve this sum for the last two hours
- ✔ 3. He has been trying to solve this sum for the last two hours
- ✘ 4. He has been trying to solve this sum since the last two hours

Question ID : **5406263726**

Q.5 **In the following question, some parts of the sentence may have errors. Find out which part of the sentence has an error and select the appropriate option. If a sentence is free from error, select No Error.**

The monkey slipped out of the (a)/ house and ran as quickly as it (b)/ can to the forest to find the boar. (c)/ No Error (d)

Ans
- ✘ 1. house and ran as quickly as it
- ✘ 2. The monkey slipped out of the
- ✔ 3. can to the forest to find the boar.
- ✘ 4. No error

Question ID : **5406263728**

Q.6 **In the following question, some parts of the sentence may have errors. Find out which part of the sentence has an error and select the appropriate option. If a sentence is free from error, select No Error.**

Suddenly, he came and (a)/ took away a few coins (b)/ I was left with at the time. (c)/ No error (d)

Ans
✗ 1. I was left with at the time.
✗ 2. Suddenly, he came and
✗ 3. No error
✓ 4. took away a few coins

Question ID : **5406263723**

Q.7 **Select the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No substitution required'.**

It is time to forgot past differences and work together for the larger interest of the nation.

Ans
✗ 1. Its time forget
✗ 2. Its time to forgot
✓ 3. It's time to forget
✗ 4. No substitution required

Question ID : **5406263733**

Q.8 **Select the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No substitution required'.**

There is plenty of room for growth in Italy, a very fragmented market.

Ans
✗ 1. to growing
✗ 2. for growing
✗ 3. to growth
✓ 4. No substitution required

Question ID : **5406263731**

Q.9 **Parts of a sentence are given below in jumbled order. Arrange the parts in the right order to form a meaningful sentence.**

1. They are sophisticated enough
P. to know that Free Basics
Q. the things they really want to access
R. would not offer them any of

Ans
✗ 1. QPR
✓ 2. PRQ
✗ 3. RPQ
✗ 4. QRP

Question ID : **5406263740**

Q.10 **In the following question, some parts of the sentence may have errors. Find out which part of the sentence has an error and select the appropriate option. If a sentence is free from error, select No Error.**

The debate will be held in (a)/ the run-up to the general election at the (b)/ fag end on the Parliament. (c)/ No Error (d)

Ans
1. the run-up to the general election at the
2. No Error
3. fag end on the Parliament.
4. The debate will be held in

Question ID : **5406263727**

Q.11 **In the following question, some parts of the sentence may have errors. Find out which part of the sentence has an error and select the appropriate option. If a sentence is free from error, select No Error.**

He has become (a)/ the younger player to be (b)/ nominated for the regional awards. (c)/ No error (d)

Ans
1. the younger player to be
2. He has become
3. nominated for the regional awards.
4. No error

Question ID : **5406263724**

Q.12 **Out of the given four sentences, choose the one which is grammatically correct.**

Ans
1. She rise to the occasion and won the election
2. She has rose to the occasion and won the election
3. She rose to the occasion and won the election
4. She risen to the occasion and won the election

Question ID : **5406263725**

Q.13 **Identify the segment in the sentence, which contains the grammatical error.**

When Della reached home her intoxication given way a little to prudence and reason.

Ans
1. When Della reached home
2. way a little to
3. her intoxication given
4. prudence and reason.

Question ID : **5406263730**

Q.14 Select the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No substitution required'.

As a young girl grow up in Trichy, Vinita says she became interested in animation.

Ans
1. grew up
2. grow
3. No substitution required
4. growing up

Question ID : **5406263732**

Q.15 In the following question, some parts of the sentence may have errors. Find out which part of the sentence has an error and select the appropriate option. If a sentence is free from error, select No Error.

The more money she earns, (a)/ the more clothes (b)/ she buys! (c)/ No Error (d)

Ans
1. The more money she earns,
2. she buys!
3. No Error
4. the more clothes

Question ID : **5406263721**

Q.16 Fill in the blank with the most appropriate word.

The firm is _____ its board of directors to find a solution to the problem.

Ans
1. figuring out
2. banking on
3. doing without
4. drawing up

Question ID : **5406263737**

Q.17 Fill in the blank with the most appropriate word.

She emphasised on giving regard to the _____ of elders.

Ans
1. advice
2. advise
3. advising
4. advicing

Question ID : **5406263739**

Q.18 **Identify the segment in the sentence, which contains the grammatical error.**

The mother placed its child near the porch as usual while she tidied up the house and got her breakfast ready.

Ans
1. and got her breakfast ready. ✗
2. the porch as usual while ✗
3. The mother placed its child near ✓
4. she tidied up the house ✗

Question ID : **5406263729**

Q.19 **Fill in the blank with the most appropriate word.**

The Aprilia team spent two years in designing and developing the SXR moto-scooter in Italy and _____especially for the Indian market.

Ans
1. it has made ✗
2. has been made ✗
3. it has been made ✓
4. it made ✗

Question ID : **5406263738**

Q.20 **Fill in the blanks with the most appropriate words.**

Shafeeq is _____ as he _____ not been able to pay the installments.

Ans
1. worried; has ✓
2. anxious; have ✗
3. upset; always ✗
4. happy; will ✗

Question ID : **5406263736**

Section : **General English2**

Q.1 **Select the meaning of the given phrase.**

Let down

Ans
1. Betray somebody ✗
2. Dislike somebody ✗
3. Disappoint somebody ✓
4. Demote somebody ✗

Question ID : **5406263758**

Q.2 Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the right order to form a meaningful and coherent paragraph.

P. the man had a beautiful wife, whom he loved passionately, and never left her side if possible
Q. one day, when he was obliged by important business to go away from her, he went to a place where all kinds of birds are sold and bought a parrot
R. this parrot not only spoke well, but it had the gift of telling all that had been done before it
S. he brought it home in a cage and asked his wife to put it in her room and take great care of it while he was away

Ans
✗ 1. SRQP
✗ 2. RQPS
✗ 3. QSRP
✓ 4. PQRS

Question ID : **5406263743**

Q.3 Select the INCORRECTLY spelt word.

Ans
✗ 1. Excellence
✗ 2. Canoe
✓ 3. Camraderie
✗ 4. Hiatus

Question ID : **5406263752**

Q.4 Select the correctly spelt word.

Ans
✓ 1. Narcissists
✗ 2. Narcissits
✗ 3. Narcisists
✗ 4. Narccisist

Question ID : **5406263750**

Q.5 In the following question, out of the four alternatives, select the alternative which is the most appropriate substitute of the given phrase.

A group of singers in a church

Ans
✗ 1. band
✗ 2. troop
✓ 3. choir
✗ 4. host

Question ID : **5406263760**

Q.6 **Select the correctly spelt word.**

Ans
1. Bibilography ✗
2. Bibliography ✓
3. Bibiloigraphy ✗
4. Biblography ✗

Question ID : **5406263748**

Q.7 **Select the most appropriate ANTONYM of the given word.**

CONFOUND

Ans
1. Confuse ✗
2. Baffle ✗
3. Perplex ✗
4. Distinguish ✓

Question ID : **5406263747**

Q.8 **Select the most appropriate meaning of the given idiom.**

To take the bull by the horns

Ans
1. To enjoy risky sports ✗
2. To face danger boldly ✓
3. To escape unhurt ✗
4. To act foolishly ✗

Question ID : **5406263755**

Q.9 **Select the correctly spelt word.**

Ans
1. Chimera ✓
2. Chimiera ✗
3. Chemera ✗
4. Chemira ✗

Question ID : **5406263749**

Q.10 **Select the most appropriate synonym of the given word.**

LEXICON

Ans
1. Live conference ✗
2. Dictionary ✓
3. Contract ✗
4. Number ✗

Question ID : **5406263744**

Q.11 Select the meaning of the given phrase.

Disposed of

Ans
✔ 1. Sold off
✘ 2. Purchased
✘ 3. Got repaired
✘ 4. Got renewed

Question ID : **5406263759**

Q.12 Select the most appropriate meaning of the given idiom.

Lock, stock and barrel

Ans
✘ 1. Immediately
✘ 2. Partly
✔ 3. Completely
✘ 4. Rarely

Question ID : **5406263754**

Q.13 Select the most appropriate synonym of the given word.

ERUDITE

Ans
✘ 1. Isolated
✘ 2. Untrained
✘ 3. Ignorant
✔ 4. Knowledgeable

Question ID : **5406263745**

Q.14 Parts of a sentence are given below in jumbled order. Arrange the parts in the right order to form a meaningful sentence.

1. I tried helping
P. thinking realized it was
Q. a lot but on deeper
R. better to stay away

Ans
✔ 1. QPR
✘ 2. RPQ
✘ 3. QRP
✘ 4. PRQ

Question ID : **5406263741**

Q.15 **Choose the correct meaning of the given phrase/idiom from the given options.**

Bending over backwards

Ans
- ✗ 1. To let go of one's hard-earned wealth
- ✗ 2. To figure out what is going on behind one's back
- ✗ 3. To claim something that does not belong to one
- ✓ 4. To go out of one's way (to do something) (for someone)

Question ID : **5406263756**

Q.16 **Select the most appropriate ANTONYM of the given word.**

ECLECTIC

Ans
- ✓ 1. Constricted
- ✗ 2. Diverse
- ✗ 3. Suppress
- ✗ 4. Varied

Question ID : **5406263746**

Q.17 **Select the meaning of the given idiom.**

Fiddling while Rome burnt

Ans
- ✗ 1. Being corrupt even in sensitive matters
- ✗ 2. Be interested in unimportant things
- ✓ 3. Do something unimportant while there is a crisis
- ✗ 4. Be ignorant of a crisis

Question ID : **5406263757**

Q.18 **Select the INCORRECTLY spelt word.**

Ans
- ✓ 1. Phisicue
- ✗ 2. Kindling
- ✗ 3. Possession
- ✗ 4. Gruelling

Question ID : **5406263751**

Q.19 **Select the INCORRECTLY spelt word.**

Ans
- ✗ 1. Knack
- ✓ 2. Chlorophyl
- ✗ 3. Canonical
- ✗ 4. Albumen

Question ID : **5406263753**

Q.20 Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the right order to form a meaningful and coherent paragraph.

P. I'm guessing Masood Azhar is currently a very happy bunny
Q. if Azhar had written down a wishlist of things he wanted out of the Pulwama attack, his tick marks have gone far below and beyond his list
R. he has summoned a slave for a new ball-point pen, because this operation is a gift that will clearly keep giving
S. at the moment the man is probably feeling like someone who has won three jackpots at the same time

Ans
✗ 1. PRSQ
✗ 2. QRPS
✗ 3. QPRS
✓ 4. PSQR

Question ID : **5406263742**

Section : **General English3**

Q.1 Select the option that can be used as a one-word substitute for the given group of words.

One who is overanxious about his health

Ans
✓ 1. Hypochondriac
✗ 2. Henpecked
✗ 3. Illiterate
✗ 4. Honorary

Question ID : **5406263762**

Q.2 Select the option that can be used as a one-word substitute for the given group of words.

A place for the sick to recover health

Ans
✗ 1. Sty
✓ 2. Sanatorium
✗ 3. Elysium
✗ 4. Cache

Question ID : **5406263764**

Q.3 Select the option that can be used as a one-word substitute for the given group of words.

The final or eventual outcome or conclusion of a discussion, action or series of events.

Ans
✗ 1. Derisory
✗ 2. Puerile
✓ 3. Upshot
✗ 4. Imbecile

Question ID : **5406263761**

Q.4 **Select the option that can be used as a one-word substitute for the given group of words.**

Government by the laws of religion

Ans
1. Ochlocracy ✗
2. Theocracy ✓
3. Monarchy ✗
4. Secular ✗

Question ID : **5406263765**

Q.5 **Select the option that can be used as a one-word substitute for the given group of words.**

Events presented in order of occurrence

Ans
1. Chronology ✓
2. Biopsy ✗
3. Crusade ✗
4. Eatable ✗

Question ID : **5406263763**

Comprehension:

Read the following passage carefully and answer the given questions.

Long, long ago, there lived in the province of Shikoku in Japan, a travelling monkey-man, who earned his living by taking round a monkey and showing off the animal's tricks. One evening the man came home in a very bad temper and told his wife to send for the butcher the next morning. The wife was very bewildered and asked her husband: "Why do you wish me to send for the butcher?"

"It's no use taking that monkey round any longer; he's too old and forgets his tricks. I beat him with my stick all I know how, but he won't dance properly. I must now sell him to the butcher and make what money out of him I can. There is nothing else to be done."

The woman felt very sorry for the poor little animal, and pleaded for her husband to spare the monkey, but her pleading was all in vain, the man was determined to sell him to the butcher. Now the monkey was in the next room and overheard every word of the conversation. He soon understood that he was to be killed, and he said to himself: "Barbarous, indeed, is my master! Here I have served him faithfully for years, and instead of allowing me to end my days comfortably and in peace, he is going to let me be cut up by the butcher, and my poor body is to be roasted and stewed and eaten?

SubQuestion No : 6

Q.6 **Which of the following provinces of Japan has been talked about in the given passage?**

Ans
1. Shikoku ✓
2. Shenzhen ✗
3. Hokkaido ✗
4. Stohoku ✗

Question ID : **5406263769**

Comprehension:

Read the following passage carefully and answer the given questions.

Long, long ago, there lived in the province of Shikoku in Japan, a travelling monkey-man, who earned his living by taking round a monkey and showing off the animal's tricks. One evening the man came home in a very bad temper and told his wife to send for the butcher the next morning. The wife was very bewildered and asked her husband: "Why do you wish me to send for the butcher?"

"It's no use taking that monkey round any longer; he's too old and forgets his tricks. I beat him with my stick all I know how, but he won't dance properly. I must now sell him to the butcher and make what money out of him I can. There is nothing else to be done."

The woman felt very sorry for the poor little animal, and pleaded for her husband to spare the monkey, but her pleading was all in vain, the man was determined to sell him to the butcher. Now the monkey was in the next room and overheard every word of the conversation. He soon understood that he was to be killed, and he said to himself: "Barbarous, indeed, is my master! Here I have served him faithfully for years, and instead of allowing me to end my days comfortably and in peace, he is going to let me be cut up by the butcher, and my poor body is to be roasted and stewed and eaten?

SubQuestion No : 7

Q.7 According to the given passage, the line “There is nothing else to be done" refers to:

Ans

✗ 1. the monkey man had no reason at all to sell the monkey

✗ 2. the butcher did not want to buy a bad tempered monkey

✓ 3. the monkey man had no other choice but to sell the monkey

✗ 4. the wife was not resisting the decision to sell the monkey

Question ID : **5406263768**

Comprehension:

Read the following passage carefully and answer the given questions.

Long, long ago, there lived in the province of Shikoku in Japan, a travelling monkey-man, who earned his living by taking round a monkey and showing off the animal's tricks. One evening the man came home in a very bad temper and told his wife to send for the butcher the next morning. The wife was very bewildered and asked her husband: "Why do you wish me to send for the butcher?"

"It's no use taking that monkey round any longer; he's too old and forgets his tricks. I beat him with my stick all I know how, but he won't dance properly. I must now sell him to the butcher and make what money out of him I can. There is nothing else to be done."

The woman felt very sorry for the poor little animal, and pleaded for her husband to spare the monkey, but her pleading was all in vain, the man was determined to sell him to the butcher. Now the monkey was in the next room and overheard every word of the conversation. He soon understood that he was to be killed, and he said to himself: "Barbarous, indeed, is my master! Here I have served him faithfully for years, and instead of allowing me to end my days comfortably and in peace, he is going to let me be cut up by the butcher, and my poor body is to be roasted and stewed and eaten?

SubQuestion No : 8

Q.8 Why did the monkey man wanted her wife to send for the butcher the next morning?

Ans

✗ 1. Because the monkey was smart and young

✓ 2. Because the monkey was too old to dance properly and perform the tricks

✗ 3. Because the monkey was very bad tempered

✗ 4. Because the monkey was very clever and performed tricks nicely

Question ID : **5406263767**

Comprehension:

Read the following passage carefully and answer the given questions.

Long, long ago, there lived in the province of Shikoku in Japan, a travelling monkey-man, who earned his living by taking round a monkey and showing off the animal's tricks. One evening the man came home in a very bad temper and told his wife to send for the butcher the next morning. The wife was very bewildered and asked her husband: "Why do you wish me to send for the butcher?"

"It's no use taking that monkey round any longer; he's too old and forgets his tricks. I beat him with my stick all I know how, but he won't dance properly. I must now sell him to the butcher and make what money out of him I can. There is nothing else to be done."

The woman felt very sorry for the poor little animal, and pleaded for her husband to spare the monkey, but her pleading was all in vain, the man was determined to sell him to the butcher. Now the monkey was in the next room and overheard every word of the conversation. He soon understood that he was to be killed, and he said to himself: "Barbarous, indeed, is my master! Here I have served him faithfully for years, and instead of allowing me to end my days comfortably and in peace, he is going to let me be cut up by the butcher, and my poor body is to be roasted and stewed and eaten?

SubQuestion No : 9

Q.9 Which of the following statements is incorrect according to the given passage?

Ans

✔ 1. The butcher was in the next room and overheard every word of the conversation.

✘ 2. She pleaded for her husband to spare the monkey, but her pleading was all in vain.

✘ 3. I beat him with my stick all I know how, but he won't dance properly.

✘ 4. I must now sell him to the butcher and make what money out of him I can.

Question ID : **5406263771**

Comprehension:

Read the following passage carefully and answer the given questions.

Long, long ago, there lived in the province of Shikoku in Japan, a travelling monkey-man, who earned his living by taking round a monkey and showing off the animal's tricks. One evening the man came home in a very bad temper and told his wife to send for the butcher the next morning. The wife was very bewildered and asked her husband: "Why do you wish me to send for the butcher?"

"It's no use taking that monkey round any longer; he's too old and forgets his tricks. I beat him with my stick all I know how, but he won't dance properly. I must now sell him to the butcher and make what money out of him I can. There is nothing else to be done."

The woman felt very sorry for the poor little animal, and pleaded for her husband to spare the monkey, but her pleading was all in vain, the man was determined to sell him to the butcher. Now the monkey was in the next room and overheard every word of the conversation. He soon understood that he was to be killed, and he said to himself: "Barbarous, indeed, is my master! Here I have served him faithfully for years, and instead of allowing me to end my days comfortably and in peace, he is going to let me be cut up by the butcher, and my poor body is to be roasted and stewed and eaten?

SubQuestion No : 10

Q.10 "I have served him faithfully for years, and instead of allowing me to end my days comfortably and in peace, he is going to let me be cut up by the butcher" these lines were said:

Ans

✘ 1. by the butcher

✔ 2. by the monkey itself

✘ 3. by monkey man's wife

✘ 4. by the monkey man

Question ID : **5406263770**