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Section : **Electrical and Electronics Engineering EEE**

Q.1 Which is not a reason, for all non-current carrying metal parts associated with HV/EHV installations are ensured to be effectively earthed to a grounding system?

- A. To limit the Step and Touch potential to tolerable values
- B. To ensure tripping of breakers on overload
- C. To maintain resistance of earth connection to such a value as to make operation of protective device effective
- D. To limit ground potential rise to tolerable values

Ans ☒ 1. A
☒ 2. B
☒ 3. C
☒ 4. D

Question ID : 5834934844

Q.2

What is $\lim_{\theta \rightarrow 0} \frac{\sin \theta}{\theta}$ equal to

- A. θ
- B. $\sin \theta$
- C. Zero
- D. 1

Ans ☒ 1. A
☒ 2. B
☒ 3. C
☒ 4. D

Question ID : 5834934845

- Q.3** The sensitivity of an instrument is the
- A. Smallest increment in the input that can be detected with certainty
 - B. Largest input change to which the instrument fails to respond
 - C. Ratio of the change in the magnitude of the output to the corresponding change in the magnitude of the input
 - D. Closeness of the output values for repeated applications of a constant input

Ans  1. A
 2. B
 3. C
 4. D

Question ID : 5834934804

- Q.4** If the light falling on a photodiode increases, the reverse current through it
- A. increases
 - B. decreases
 - C. remains unaffected
 - D. none of the above

Ans  1. A
 2. B
 3. C
 4. D

Question ID : 5834934782

- Q.5** Stirling boiler is a
- A. Fire tube boiler
 - B. Bend tube water boiler
 - C. Vertical straight tube water boiler
 - D. Cyclone fired boiler

Ans  1. A
 2. B
 3. C
 4. D

Question ID : 5834934857

Q.6 A transformer having 1200 primary turns is connected to a 240 V ac supply. For a secondary voltage of 360 V, the number of turns on the secondary should be

- A. 800
- B. 1800
- C. 360
- D. 2700

Ans  1. A
 2. B
 3. C
 4. D

Question ID : 5834934815

Q.7

A diesel engine has the following possibilities:

- A. Four stroke cycle of operation
- B. Two stroke cycle of operation
- C. Three stroke cycle of operation
- D. A and B are possible

Ans  1. A
 2. B
 3. C
 4. D

Question ID : 5834934827

Q.8

BCD equivalent of decimal number $(85)_{10}$ is

- A. 1000 - 1100
- B. 1000 - 0101
- C. 1101 - 1010
- D. 1101 - 0101

Ans  1. A
 2. B
 3. C
 4. D

Question ID : 5834934855

Q.9 A 33 kV overhead line when erected across or along streets, it requires to have minimum statutory clearance to ground this much:

- A. 4.6 m
- B. 5.8 m
- C. 5.0 m
- D. 6.1 m

Ans  1. A
 2. B
 3. C
 4. D

Question ID : 5834934843

Q.10 Three non-zero velocity vectors $\vec{A}$, $\vec{B}$ and $\vec{C}$, satisfy $\vec{A} \cdot \vec{B} = \vec{A} \cdot \vec{C} = 0$. The vectors $\vec{B}$ and $\vec{C}$ are not collinear. The vector $\vec{A}$ is either along or opposite to

- A. $\vec{B} + \vec{C}$
- B. $\vec{B}$
- C. $\vec{B} \times \vec{C}$
- D. $\vec{C}$

Ans  1. A
 2. B
 3. C
 4. D

Question ID : 5834934858

Q.11 A JFET

- A. is a voltage controlled device
- B. is a current controlled device
- C. has a low input voltage
- D. has a very large voltage gain

Ans  1. A
 2. B
 3. C
 4. D

Question ID : 5834934856

Q.12

The accuracy of a measuring instrument is determined by

- A. Closeness of the value indicated by it to the correct value of the measured
- B. Repeatability of the measured value
- C. Speed with which the instruments reading approaching to final value
- D. Largest change in the value of the measurand that could be detected by the instrument

Ans  1. A 2. B 3. C 4. D

Question ID : 5834934802

Q.13 Depreciation rate is less in case of

- A. Nuclear power station
- B. Steam power station
- C. Hydro electric power station
- D. Diesel power plant

Ans  1. A 2. B 3. C 4. D

Question ID : 5834934835

Q.14

What is the frequency of a wave whose time period is 0.05 seconds?

- A. 5Hz
- B. 10Hz
- C. 20Hz
- D. 40Hz

Ans  1. A 2. B 3. C 4. D

Question ID : 5834934846

Q.15

Electricity Boards insist on customers to improve the power factor because

- A. Higher power factor produce higher losses in transmission
- B. For a given power the higher the power factor, the larger must be the size of alternator
- C. For a given power the lower the power factor, the Larger must be the size of alternator
- D. For a given power the lower the power factor, the lower the cross section area of transmission line

Ans  1. A
 2. B
 3. C
 4. D

Question ID : 5834934828

Q.16

An electrical load draws 5.5 KW of real power and 2.5 KVAR of inductive reactive power.
The rating of capacitor bank required to obtain a unity load power factor will be

- A. 5.5 KVAR
- B. 2.0 KVAR
- C. 2.5 KVAR
- D. 1.5 KVAR

Ans  1. A
 2. B
 3. C
 4. D

Question ID : 5834934832

Q.17

The value of $(1 + i)^8$ is (where $i = \sqrt{-1}$)

- A. $8 + 4i$
- B. $8 - 4i$
- C. 16
- D. 8

Ans  1. A
 2. B
 3. C
 4. D

Question ID : 5834934852

Q.18 The source of emission of electrons in a CRT is

- A. PN junction diode
- B. Barium and strontium oxide coated cathode
- C. Accelerating Anodes
- D. Post accelerating anodes

Ans  1. A

 2. B

 3. C

 4. D

Question ID : 5834934807

Q.19 The windings where dummy coils are sometimes used is called as:

- A. Forced Winding
- B. Duplex Winding
- C. Triplex Winding
- D. Quadruplex winding

Ans  1. A

 2. B

 3. C

 4. D

Question ID : 5834934837

Q.20 Time interval from instant of contact separation to time of arc extinction is called

- A. Opening time
- B. Arcing time
- C. Closing time
- D. None of the above

Ans  1. A

 2. B

 3. C

 4. D

Question ID : 5834934823

Q.21 In UPS, the solid-state switch normally transfers within

- A. 4 ms
- B. 30 ms
- C. 48 ms
- D. 30 s

Ans ☒ 1. A

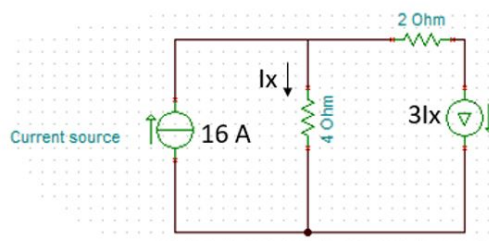
☒ 2. B

☒ 3. C

☒ 4. D

Question ID : 5834934798

Q.22 Find the current I_x and the voltage across 2Ω resistance for the circuit shown in the figure.



- A. 6A, 12V
- B. 5A, 20V
- C. 4A, 24V
- D. 3A, 24V

Ans ☒ 1. A

☒ 2. B

☒ 3. C

☒ 4. D

Question ID : 5834934793

Q.23 In order to ensure low cost of Electrical Energy generation

- A. The Load factor and Diversity factor should be low
- B. The Load factor should be low but Diversity factor should be high
- C. The Load factor and Diversity Factor should be high
- B. The Load factor should be high but Diversity factor should be low

Ans ☒ 1. A

☒ 2. B

☒ 3. C

☒ 4. D

Question ID : 5834934838

Q.24 Which of the following does not represent an I/O device?

- A. Speaker which beeps
- B. Joystick
- C. Plotter
- D. ALU

Ans  1. A
 2. B
 3. C
 4. D

Question ID : 5834934789

Q.25 RMS value of a rectangular wave of period T , having a value $+V$ for a duration T_1 ($<T$) and $-V$ for the duration, $T-T_1 = T_2$ equals

- A. V
- B. $(T_1-T_2)/2$
- C. $V/\sqrt{2}$
- D. T_1/T_2

Ans  1. A
 2. B
 3. C
 4. D

Question ID : 5834934854

Q.26 In a sequential circuit, the output at any instant of time depends

- A. only on the inputs present at that instant of time
- B. on past outputs as well as present inputs
- C. only on the past inputs
- D. only on the present inputs

Ans  1. A
 2. B
 3. C
 4. D

Question ID : 5834934786

Q.27 In a full wave rectifier without filter, the ripple factor is

- A. 0.482
- B. 1.21
- C. 1.79
- D. 2.05

Ans  1. A

 2. B

 3. C

 4. D

Question ID : 5834934797

Q.28 The reactance offered by a capacitor to alternating current of frequency 50 Hz is 10Ω . If frequency is increased to 100 Hz, reactance becomes _____

- A. 5
- B. 2.5
- C. 40
- D. 20

Ans  1. A

 2. B

 3. C

 4. D

Question ID : 5834934861

Q.29 NOR gate is logically equivalent to

- A. an OR gate followed by AND gate
- B. an OR gate followed by NAND gate
- C. an AND gate followed by OR gate
- D. an OR gate followed by an inverter

Ans  1. A

 2. B

 3. C

 4. D

Question ID : 5834934783

Q.30

For a transistor of any configuration,

A. $I_E = I_C + I_B$

B. $I_B = I_C + I_E$

C. $I_E = I_B - I_C$

D. $I_C = I_E + I_B$

Ans  1. A

 2. B

 3. C

 4. D

Question ID : 5834934787

Q.31 A tube light is specified as Daylight 6500deg K. What is the meaning of it?

A. Lamp filament vis at 6500 deg K

B. Ballast heat is around 6500 deg K

C. The colour temperature of output light

D. Lamp is suitable in day time

Ans  1. A

 2. B

 3. C

 4. D

Question ID : 5834934840

Q.32 When two transformers of equal voltage ratios are operating in parallel, they will share the load under

A. 50% - 50%

B. Proportional to their KVA ratings

C. Proportional to their iron losses

D. 100% first transformer, balance second transformer

Ans  1. A

 2. B

 3. C

 4. D

Question ID : 5834934810

Q.33 Directional relay responds to _____

- A. Flow of power
- B. Voltage polarities
- C. Flow of current
- D. All of these

Ans  1. A

 2. B

 3. C

 4. D

Question ID : 5834934822

Q.34 Buchholtz relay is used for the protection of _____

- A. Alternators
- B. Transmission lines
- C. Switch Yard
- D. Transformers

Ans  1. A

 2. B

 3. C

 4. D

Question ID : 5834934820

Q.35 Consider the following statements with reference to observations made by an astronaut on the surface of the moon.

1. The astronaut finds that a simple pendulum continues to oscillate for a much longer time than that on the earth.
2. No atmosphere exists there

Which of the following statements given above is/are correct?

- A. Only 1
- B. Only 2
- C. Both 1 and 2
- D. Neither 1 nor 2

Ans  1. A

 2. B

 3. C

 4. D

Question ID : 5834934847

Q.36 The positive plate in a fully discharged SMF lead acid cell is _____

- A. PbSO_4
- B. Diluted H_2SO_4
- C. PbO_2
- D. Pb

Ans  1. A

 2. B

 3. C

 4. D

Question ID : 5834934829

Q.37 Rotor speed of induction motor can be determined from

- A. $N = (1+s) N_s$
- B. $N = (1-s) N_s$
- C. $N = (s-1) N_s$
- D. $N = (s+2) N_s$

Ans  1. A

 2. B

 3. C

 4. D

Question ID : 5834934811

Q.38 Positive feedback means the returning signal

- A. opposes the original change
- B. aids the original change
- C. is equivalent to negative feedback
- D. is amplified

Ans  1. A

 2. B

 3. C

 4. D

Question ID : 5834934788

Q.39 In Cumulatively compounded DC machine _____

- A. Series field flux opposes shunt field flux
- B. Series field flux aids shunt field flux
- C. Only Series field flux excites
- D. Only shunt field flux excites

Ans  1. A

 2. B

 3. C

 4. D

Question ID : 5834934813

Q.40

Power factor can be defined as:

- A. Reactive power ÷ Active power
- B. Reactive power ÷ Apparent power
- C. True power ÷ Apparent power
- D. Apparent power ÷ Reactive power

Ans  1. A

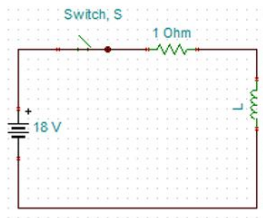
 2. B

 3. C

 4. D

Question ID : 5834934826

- Q.41** In the circuit, S was initially open. At time $t=0$, S is closed. When the current through the inductor is 6 A, the rate of change of current through the resistor is 6A/sec, the value of the inductor would be



- A. 1 H
- B. 2 H
- C. 3 H
- D. 4 H

Ans ☒ 1. A
☒ 2. B
☒ 3. C
☒ 4. D

Question ID : 5834934791

- Q.42** VFD for motor control stands for

- A. Voltage Fluctuation Damper
- B. Variable Flux Drive
- C. Variable Frequency Drive
- D. Variable Fixed Drive

Ans ☒ 1. A
☒ 2. B
☒ 3. C
☒ 4. D

Question ID : 5834934795

- Q.43** Why Swinburne's test can't be conducted on a DC series motor?

- A. As it is a no-load test
- B. As it is a Full load test
- C. As it is regenerative test
- D. None of the above

Ans ☒ 1. A
☒ 2. B
☒ 3. C
☒ 4. D

Question ID : 5834934817

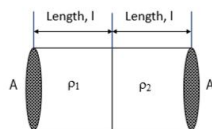
Q.44 The height of a building is 78.4m. If a stone drops from the edge of the roof of the building, how much time does it take to reach the ground?

- A. 8 seconds
- B. 4 seconds
- C. 12 seconds
- D. 16 seconds

Ans ☒ 1. A
☒ 2. B
☒ 3. C
☒ 4. D

Question ID : 5834934848

Q.45 Two rods having equal lengths and equal cross-sections but with different specific resistances ρ_1 and ρ_2 are joined at one end as shown in the figure given below. What is the effective specific resistance of the combination?



- A. $(\rho_1 \cdot \rho_2) / (\rho_1 + \rho_2)$
- B. $(\rho_1 + \rho_2) / 2$
- C. $(\rho_1 + \rho_2)$
- D. $(\rho_1 \cdot \rho_2) / 2(\rho_1 + \rho_2)$

Ans ☒ 1. A
☒ 2. B
☒ 3. C
☒ 4. D

Question ID : 5834934853

Q.46 Bio transformation of an organic compound having concentration (x) can be modelled using an ordinary differential equation $\frac{dx}{dt} + kx^2 = 0$, where 'k' is the reaction rate constant. If $x=a$ at $t=0$, the solution of the equation is

- A. $x = ae^{-kt}$
- B. $\frac{1}{x} = \frac{1}{a} + kt$
- C. $x = a \cdot (1 - e^{-kt})$
- D. $x = a + kt$

Ans ☒ 1. A
☒ 2. B
☒ 3. C
☒ 4. D

Question ID : 5834934851

Q.47 What information does a load curve give?

- A. Variation of the load during different hours of the day
- B. Maximum Demand
- C. Total number of units generated in a day
- D. All of the above

Ans  1. A
 2. B
 3. C
 4. D

Question ID : 5834934834

Q.48

Overall efficiency of the following generation plant is least:

- A. Thermal power plant
- B. Nuclear power plant
- C. Hydro Electric power plant
- D. Diesel power plant

Ans  1. A
 2. B
 3. C
 4. D

Question ID : 5834934830

Q.49 As per Indian Electricity Rules, the supplier shall not permit frequency of AC supply to vary by more than ____ % of declared frequency

- A. 9%
- B. 6%
- C. 3%
- D. 1.5%

Ans  1. A
 2. B
 3. C
 4. D

Question ID : 5834934841

Q.50 Angle between synchronously rotating stator flux and rotor poles of a synchronous motor is called _____

- A. Synchronous angle
- B. Torque angle
- C. Power factor angle
- D. Slip angle

Ans  1. A

 2. B

 3. C

 4. D

Question ID : 5834934818

Q.51 HRC fuses are preferred over re-wirable fuses because of

- A. High Rupturing Capacity
- B. Low Temperature Rise
- C. High Speed of operation
- D. All of the above

Ans  1. A

 2. B

 3. C

 4. D

Question ID : 5834934833

Q.52 Transposition of OH lines are done for long transmission lines for the purpose of _____

- A. Equalize the L-E inductance
- B. Equalize the L-E capacitance
- C. Equalize the Line resistance
- D. To Maintain equal Vector angle

Ans  1. A

 2. B

 3. C

 4. D

Question ID : 5834934825

Q.53

The function $f(x) = 3x(x - 2)$ has a

A. minimum at $x = 1$

B. maximum at $x = 1$

C. minimum at $x = 2$

D. maximum at $x = 2$

Ans  1. A

 2. B

 3. C

 4. D

Question ID : 5834934849

Q.54

The value of the integral $\int_{-\infty}^{\infty} \frac{dx}{1+x^2}$ is

A. $-\pi$

B. $-\frac{\pi}{2}$

C. $\frac{\pi}{2}$

D. π

Ans  1. A

 2. B

 3. C

 4. D

Question ID : 5834934850

Q.55 Which of the following are the requirements of protection of power station building against direct strokes_____

- A. Interception and Conduction
- B. Interception, conduction and dissipation
- C. Interception
- D. Conduction and dissipation

Ans  1. A

 2. B

 3. C

 4. D

Question ID : 5834934824

Q.56 The current in the primary winding of a current transformer depends upon

- A. Burden of the secondary winding of the transformer
- B. Load connected to the system in which CT is installed
- C. Both burden of the transformer secondary winding and load connected to the system
- D. None of the above

Ans  1. A

 2. B

 3. C

 4. D

Question ID : 5834934806

Q.57 What is the working principle of transformer?

- A. Ohm's Law
- B. Kirchoff's Law
- C. Faraday's law of Mutual Induction
- D. Lenz's Law

Ans  1. A

 2. B

 3. C

 4. D

Question ID : 5834934809

Q.58

Voltage regulators use

A. Negative feedback

B. Positive feedback

C. No feedback

D. Current feedback

Ans  1. A

 2. B

 3. C

 4. D

Question ID : 5834934785

Q.59

What is the secondary full load line current of a 3-phase, 11KV/433 V, 2 MVA, 50Hz, Delta/Star, step down transformer?

A. 100 A

B. 500 A

C. 4617 A

D. 2666 A

Ans  1. A

 2. B

 3. C

 4. D

Question ID : 5834934816

Q.60

The ratio of r.m.s to average value of a sinusoidal alternating voltage is known as

A. Peak factor

B. Power factor

C. Form factor

D. Q-factor

Ans  1. A

 2. B

 3. C

 4. D

Question ID : 5834934784

Q.61 The ripple factor of a power supply is a measure of

- A. Its voltage regulation
- B. Its diode rating
- C. Purity of power output
- D. Its filter efficiency

Ans  1. A
 2. B
 3. C
 4. D

Question ID : 5834934794

Q.62 To save energy during braking, which type of braking is used?

- A. Regenerative
- B. Plugging
- C. Dynamic
- D. Rheostatic

Ans  1. A
 2. B
 3. C
 4. D

Question ID : 5834934801

Q.63 A synchronous motor can run at _____ power factor

- A. Unity PF
- B. Leading PF
- C. Lagging PF
- D. All A, B, C

Ans  1. A
 2. B
 3. C
 4. D

Question ID : 5834934814

Q.64 The latching current of SCR is 18 mA. Its holding current will be

- A. 7.2 mA
- B. 20 mA
- C. 50 mA
- D. 30 mA

Ans  1. A

 2. B

 3. C

 4. D

Question ID : 5834934800

Q.65 A kitchen with electric appliances is operating on 230 V, 50 Hz LT supply for 10 hours. The load comprises of lighting load of 2 kW @0.9 p.f lagging on R-phase, heater load 1 kW @UPF on Y phase, and a 2 kW grinder @0.8 p.f lagging, 4 kW dish washer @0.95 p.f and 4 kW freezer @0.85 p.f. what is the energy consumption by the workshop?

- A. 130 Units
- B. 100.9 Units
- C. 13 Units
- D. 65 Units

Ans  1. A

 2. B

 3. C

 4. D

Question ID : 5834934836

Q.66 Each diode of single-phase half wave rectifier conducts for

- A. 90°
- B. 180°
- C. 270°
- D. 360°

Ans  1. A

 2. B

 3. C

 4. D

Question ID : 5834934796

Q.67 In case the combination of Circuit Breaker and HRC fuse is used in a circuit, the circuit breaker will operate for :

- A. Overload current
- B. Only Short Circuit Current
- C. Only Earth fault Current
- D. B and C above

Ans  1. A

 2. B

 3. C

 4. D

Question ID : 5834934842

Q.68 A resistance of $60\ \Omega$, capacitive reactance of $100\ \Omega$ and an inductive reactance of $20\ \Omega$ are connected to form a series RLC circuit. The impedance and power factor of the circuit will be

- A. $100\ \Omega$, 0.8 lagging
- B. $60\ \Omega$ unity
- C. $100\ \Omega$, 0.6 leading
- D. $20\ \Omega$, 0.6 leading

Ans  1. A

 2. B

 3. C

 4. D

Question ID : 5834934790

Q.69 Low resistance is measured by following bridge:

- A. Desauty's bridge
- B. Maxwell's bridge
- C. Kelvin's bridge
- D. Wein bridge

Ans  1. A

 2. B

 3. C

 4. D

Question ID : 5834934805

Q.70 Yokes with rectangular cross section are used for

- A. Large capacity Transformers
- B. Medium capacity Transformers
- C. Small capacity Transformers
- D. All of the above

Ans  1. A
 2. B
 3. C
 4. D

Question ID : 5834934839

Q.71 Arcing contacts in circuit breaker are made of _____

- A. Electrolytic copper
- B. Tungsten
- C. Copper tungsten alloy
- D. Aluminium

Ans  1. A
 2. B
 3. C
 4. D

Question ID : 5834934821

Q.72 A series RLC circuit consisting of $R = 10\Omega$, $X_L = 20\Omega$ and $X_C = 20\Omega$ is connected across an

A.C. supply of 200V r.m.s. The RMS voltage across the capacitor is

- A. $200\angle(-90^\circ)$
- B. $200\angle(+90^\circ)$
- C. $400\angle(+90^\circ)$
- D. $400\angle(-90^\circ)$

Ans  1. A
 2. B
 3. C
 4. D

Question ID : 5834934792

Q.73 An over excited synchronous motor draws current _____

- A. at lagging Power factor
- B. at leading Power factor
- C. at Unity power factor
- D. depending on the nature of load

Ans  1. A

 2. B

 3. C

 4. D

Question ID : 5834934819

Q.74 What is the condition for achieving maximum efficiency of transformer?

- A. Iron loss = $\frac{1}{2}$ Copper loss
- B. Copper loss = $\frac{1}{2}$ Iron loss
- C. Iron Loss = Copper loss
- D. Iron Loss = 2 x copper loss

Ans  1. A

 2. B

 3. C

 4. D

Question ID : 5834934859

Q.75 The total power in a three-phase circuit is expressed as

- A. $P = 3V_L I_L \cos \phi$
- B. $P = \sqrt{3} V_P I_P \cos \phi$
- C. $P = \sqrt{3} V_L I_L \cos \phi$
- D. None of the above

Ans  1. A

 2. B

 3. C

 4. D

Question ID : 5834934803

Q.76

Which of the electrical equipment can work under water?

- A. Equipment with IP 64 Protection
- B. Equipment with IP 68 Protection
- C. Equipment with IP 54 Protection
- D. Equipment with IP 20 Protection

Ans  1. A
 2. B
 3. C
 4. D

Question ID : 5834934831

Q.77 Three phase-controlled rectifier used in speed control of DC motor converts fixed AC supply into following output voltage

- A. Variable DC
- B. Variable AC
- C. Variable frequency AC
- D. Full rectified AC

Ans  1. A
 2. B
 3. C
 4. D

Question ID : 5834934799

Q.78 Which is called 0° connection out of the following?

- A. Delta/Delta
- B. Star/Delta
- C. Delta/Star
- D. Star/Zig-Zag Star

Ans  1. A
 2. B
 3. C
 4. D

Question ID : 5834934812

- Q.79** In a balanced wheat stone bridge, $R_1 = 50 \text{ k}\Omega$, $R_2 = 60 \text{ k}\Omega$, $R_3 = R_x$ and $R_4 = 100 \text{ k}\Omega$. The value of R_x is
- A. $30 \text{ k}\Omega$
 - B. $60 \text{ k}\Omega$
 - C. $15 \text{ k}\Omega$
 - D. $120 \text{ k}\Omega$

Ans  1. A
 2. B
 3. C
 4. D

Question ID : 5834934808

- Q.80** Consider the following equation for the formation of Ammonia from Nitrogen and Hydrogen
- $$\text{N}_2 + 3\text{H}_2 \rightarrow 2\text{NH}_3$$
- How many hydrogen molecules are required to react with 100 molecules of Nitrogen ?

- A. 100
- B. 200
- C. 300
- D. 400

Ans  1. A
 2. B
 3. C
 4. D

Question ID : 5834934860