Post Name : 07-Electrical and allied Engineering **Exam Code** : MASSHOL

Exam Date : 15-06-2024 **Exam Time** : 9:30AM

Question No. 1

According to IE rules, the minimum clearance of the high voltage lines above the ground, of the lowest overhead conductor across a street is-

A) 1.2 m
B) 1.5 m
C) 4.6 m
D) 6.1 m

Answer Key: D

Question No. 2

What will be the total flux emitted by a source of 60 candle power? (Take π = 3.14)

A) None of the options
B) 132.6 lumens
C) 60 lumens
D) 0.001326 lumens

Answer Key: A

Question No. 3

The knee voltage for a germanium diode is-

A) 0.1 V
B) 0.3 V
C) 0.7 V
D) 0.8 V

Answer Key: B

Question No. 4

In which of the following is a Britannia Tee joint used?

A) Overhead lines
B) Underground cables
C) Conduit wiring
D) Power wiring

Answer Key: A

Question No. 5

What is the basic function of a circuit breaker?

A) To produce the arc
B) To ionize the surrounding air
C) To transmit voltage by arcing
D) To interrupt current flow after a fault is detected

Answer Key: D

Question No. 6

Windings of star-delta starter while starting and during running are connected in _____ connection.

A) Star and delta
B) Delta and delta
C) Star and star
D) Delta and star

Answer Key: A

Question No. 7

Which of the following wiring is suitable for lighting in low voltage installations?

A) Concealed conduit wiring
B) Casing wiring
C) Surface conduit wiring
D) TRS wiring

Answer Key: D

Question No. 8

Two bulbs of 500 W and 200 W rated at 250 V will have a resistance ratio as-

A) 5 : 1
B) 2 : 5
C) 3 : 1
D) 2 : 3

Answer Key: B

Question No. 9

An SCR has _____ PN junctions.

A) 2
B) 3
C) 4
D) 5

Answer Key: B

Question No. 10

In a permanent magnet moving coil instrument, the deflecting torque is given by-

A) Flux density in air gap
B) Number of turns of coil
C) Current passing through coil
D) All of the options

Answer Key: D

Question No. 11

Which of the following is NOT a standard transmission voltage?

A) 132 kV
B) 222 kV
C) 400 kV
D) 765 kV

Answer Key: B

Question No. 12

TRS cables on batten are suitable for places-

A) Not exposed to sun and rain
B) Exposed to atmosphere
C) Where acids and alkalis are absent
D) Fire hazard is present

Answer Key: A

Question No. 13

The total opposition offered to the flow of current in an AC circuit is called-

A) Impedance
B) Capacitance

C) Inductance

D) Resistance

Answer Key: A

Question No. 14

What is the synchronous speed of a six-pole motor running at a frequency of 50 Hz?

A) 1000 RPM

B) 1200 RPM

C) 6000 RPM

D) 7200 RPM

Answer Key: A

Question No. 15

In an NPN transistor, the P region is called the-

A) Collector

B) Emitter

C) Base

D) Source

Answer Key: C

Question No. 16

Equipment earthing is necessary to give protection against-

A) Voltage fluctuation

B) Overloading

C) The danger of electric shocks

D) The high temperature of the conductors

Answer Key: C

Question No. 17

A silicon solar cell has an open circuit voltage NOT equivalent to-

A) 0.35 V

B) 1 V

C) 1.3 V

D) All of the options

Answer Key: D

Question No. 18

A substance that has a high retentiveness can be used for the manufacture of-

A) Electromagnets

B) Permanent magnets

C) Temporary magnets

D) Diamagnets

Answer Key: B

Question No. 19

The thyristor is turned off when the anode current falls below-

A) Forward current

B) Latching current

C) Holding current

D) Breakover current

Answer Key: C

Question No. 20

A synchronous motor when used for power factor improvement SHOULD be-

A) Operated at no load with under-excitation

B) Operated at no load with over-excitation

C) Operated with load

D) Connected along with capacitor bank

Answer Key: B

Question No. 21

Voltage regulation of an ideal transformer is-

A) 0%

B) 1%

C) 2%

D) 100%

Answer Key: A

Question No. 22

DC shunt motors are commonly used in-

A) Cranes

B) Electric traction

C) Both cranes and electric traction

D) Lathe machines

Answer Key: D

Question No. 23

The speed of a DC machine can be measured by a/an-

A) Anemometer

B) Tachometer

C) Voltmeter

D) Ammeter

Answer Key: B

Question No. 24

A component which is used to close or break a circuit is called a/an-

A) Bulb

B) Switch

C) Wire

D) Electric cell

Answer Key: B

Question No. 25

The winding of interpoles is connected _____ with the armature.

A) In series

B) In parallel

C) Half in series and half in parallel

D) Both in series and parallel

Answer Key: A

Question No. 26

The EMF of a generator depends on-

A) Number of poles

B) Flux per pole

C) Number of parallel paths

D) All of the options

Answer Key: D

Question No. 27

Electric power is measured using a/an _____.

A) Megger

B) Voltmeter

C) Ammeter

D) Wattmeter

Answer Key: D

Question No. 28

If a 100 Watts bulb is ON for 10 hours, then what will be the amount of electricity consumed?

A) 300 Watts

B) 100 Watts per hour

C) 1 kWh

D) 1500 Watts

Answer Key: C

Question No. 29

Reverse Power flow relays are used for the protection of-

A) Generating stations

B) Transmission stations

C) Domestic power supplies

D) Transformers

Answer Key: A

Question No. 30

The arcing contacts in a circuit breaker are made of-

A) Nichrome

B) Magnine

C) Copper tungsten alloy

D) Aluminium alloy

Answer Key: C

Question No. 31

The rotor in an alternator requires-

A) DC

B) AC

C) Pulsed AC

D) Triangular wave

Answer Key: A

Question No. 32

What is the length of a 40 watt tube?

A) 0.6 m

B) 1.2 m

C) 1.9 m

D) 2 m

Answer Key: B

Question No. 33

What is the thermal conductivity of nichrome?

A) 11.3 $Wm^{-1}K^{-1}$

B) 15.5 $Wm^{-1}K^{-1}$

C) 20.7 $Wm^{-1}K^{-1}$

D) 25 $Wm^{-1}K^{-1}$

Answer Key: A

Question No. 34

For a slip 's' and supply frequency 'f', the frequency of current in rotor of an induction motor will be-

A) sf

B) (1-s)f

C) f/s

D) f^2/s

Answer Key: A

Question No. 35

If there are “n” nodes in the circuit, there will be _____ independent nodal equations.

A) n

B) n-1

C) n+1

D) n-2

Answer Key: B

Question No. 36

If the load impedance in three phases are NOT equal to the load, then it is said to be-

A) Balanced load

B) Unbalanced load

C) Balanced supply

D) Unbalanced supply

Answer Key: B

Question No. 37

Leakage coefficient is denoted by-

A) λ(Lambda)

B) φ(Phi)

C) μ(mu)

D) Ω(ohm)

Answer Key: A

Question No. 38

A coil of 600 turns and of resistance of 20 Ω is wound uniformly over a steel ring of mean circumference 30 cm and cross sectional area 9 cm^2. If the relative permeability of the ring is 1600, find the value of reluctance.

A) 1.657×10^5 AT/Wb

B) 2.657×10^5 AT/Wb

C) 3.657×10^5 AT/Wb

D) 4.657×10^5 AT/Wb

Answer Key: A

Question No. 39

When an electric device, appliance or electrical installation is connected to the earth electrode without a fuse, circuit breaker or resistance/impedance, it is called-

A) Solidly earthed

B) Earthing lead

C) Earth continuity conductor

D) Earth resistance

Answer Key: A

Question No. 40

How many receptacles can be on a 20-amp circuit?

A) 10

B) 30

C) 40

D) 50

Answer Key: A

Question No. 41

_____ system(s) is/are universally adopted for the generation, transmission and distribution of electric power.

A) Three phase

B) Single phase

C) Two phase

D) Both single and two phase

Answer Key: A

Question No. 42

If the equation of sinusoidal current is 141.4 sin 314t, find the RMS value and frequency of the current.

A) 100 A and 50 Hz

B) 200 A and 100 Hz

C) 300 A and 150 Hz

D) 400 A and 200 Hz

Answer Key: A

Question No. 43

_____ is defined as weber-turns in one coil due to one ampere current in the other.

A) Coefficient of mutual inductance

B) Energy efficiency coefficient

C) Temperature coefficient

D) Load coefficient

Answer Key: A

Question No. 44

Which of the following is/are DC windings?

A) Single layered winding

B) Wound rotor winding

C) Both single and double layered windings

D) Lap winding

Answer Key: D

Question No. 45

The number of poles in a turbo alternator are-

A) 2

B) 6

C) 8

D) 10

Answer Key: A

Question No. 46

The power factor of synchronous generator depends on-

A) Speed of rotor

B) Load

C) Core losses

D) Armature losses

Answer Key: B

Question No. 47

The speed with which the turbo alternators operate are-

A) 10000 RPM

B) 15000 RPM

C) 3000 RPM

D) 5000 RPM

Answer Key: C

Question No. 48

The synchronous speed of a three-phase induction motor having 20 poles and connected to a 50 Hz source is-

A) 1200 RPM

B) 300 RPM

C) 600 RPM

D) 1000 RPM

Answer Key: B

Question No. 49

Which of the following are the disadvantages of synchronous motors?

A) Requires DC excitation

B) Ability to control the power factor

C) Electro-magnetic power varies linearly with the voltage

D) Usually operate with higher efficiencies

Answer Key: A

Question No. 50

A JFET is also called _____ device.

A) Bipolar

B) Unipolar

C) Both unipolar and bipolar

D) Power transistor

Answer Key: B

Question No. 51

Which of the following materials is NOT used as fuse element?

A) Silver

B) Copper

C) Aluminium

D) Carbon

Answer Key: D

Question No. 52

A condenser brushing forms arm AB of a Schering bridge and a standard capacitor of 500 pF and negligible loss forms arm AD. Arm BC consists a non-inductive resistance of 300 ohm, When the bridge is balanced, arm CD has resistance of 72.6 ohm in parallel with a capacitance of 0.148 μF. The supply frequency is 50 Hz. Calculate the unknown capacitance.

A) 0.121 nF

B) 0.221 nF

C) 0.321 nF

D) 0.421 nF

Answer Key: A

Question No. 53

Earthing Practice Rule 33 of _____ makes it compulsory for licensee to maintain a suitable earthed terminal.

A) Indian Electricity Rules 1956

B) Indian Electricity Rules 1950

C) Indian Electricity Rules 1960

D) Indian Electricity Rules 1966

Answer Key: A

Question No. 54

An electric bulb is rated 220 V and 100 W. Calculate the power consumed when it is operated on 110 V.

A) 25 W

B) 35 W

C) 45 W

D) 55 W

Answer Key: A

Question No. 55

Which of the following are the main characteristics of a fuse element?

A) Low melting point

B) High conductivity

C) Free from deterioration due to oxidation

D) All of the options

Answer Key: D

Question No. 56

What is the synchronous speed of a 4-pole motor operating at a frequency of 100 Hz?

A) 1000 RPM

B) 2000 RPM

C) 2500 RPM

D) 3000 RPM

Answer Key: D

Question No. 57

Two resistors, each of 20 ohm, are connected in parallel and this combination is connected across a 40 V supply voltage. Find the resistance offered by the voltage source.

A) 10 ohms

B) 25 ohms

C) 20 ohms

D) 40 ohms

Answer Key: A

Question No. 58

What is the power dissipated in a 5-ohm resistor carrying 2 A current?

A) 10 W

B) 20 W

C) 2.5 W

D) 0.6 W

Answer Key: B

Question No. 59

What is the value of fusing factor?

A) Zero

B) Equal to one

C) More than one

D) Less than one

Answer Key: C

Question No. 60

Which of the following is/are the main reason(s) for voltage drop in an alternator on load?

A) Armature resistance
B) Armature leakage reactance
C) Armature reaction
D) All of the options

Answer Key: D

Question No. 61

The AC voltmeter or ammeter measures the _____ value.

A) Average
B) RMS
C) Peak
D) Instantaneous

Answer Key: B

Question No. 62

Breaking capacity of a circuit breaker is usually expressed in terms of-

A) Joules
B) Volts
C) MW
D) MVA

Answer Key: D

Question No. 63

A 40 W electric light bulb is connected to a 200 V supply. The resistance of the bulb is-

A) 40 Ω
B) 200 Ω
C) 240 Ω
D) 1000 Ω

Answer Key: D

Question No. 64

The rotor in an alternator has-

A) One slip ring
B) Two slip rings
C) Three slip rings
D) Four slip rings

Answer Key: B

Question No. 65

What is the reciprocal of the diversity factor?

A) Coincidence factor
B) Form factor
C) Power factor
D) Demand factor

Answer Key: A

Question No. 66

The transformer works on the principle of-

A) Helix rule
B) Ohm's law
C) Mutual induction
D) Kirchhoff's law

Answer Key: C

Question No. 67

The basic unit of energy is-

A) Watt

B) Joule

C) Watt/sec

D) Joule/sec

Answer Key: B

Question No. 68

Which device is used for the protection of an electrical circuit from the damage caused by overload or short circuit?

A) Push button

B) Circuit breaker

C) Switch

D) Earth Tester

Answer Key: B

Question No. 69

The rating of fuse wire is always expressed in-

A) Ampere-hours

B) kWh

C) Amperes

D) Ampere-volts

Answer Key: C

Question No. 70

What is the power consumed by the 100 Ω resistor with a flowing current of 10 A?

A) 1000 kW

B) 1 kW

C) 100 kW

D) 10 kW

Answer Key: D

Question No. 71

Which of the following is/are components of an electric drive?

A) Power converter

B) Sensor

C) Controller

D) All of the options

Answer Key: D

Question No. 72

A capacitor carries a charge of 0.1 C at 5 V. Its capacitance is-

A) 0.02 F

B) 0.5 F

C) 0.05 F

D) 0.2 F

Answer Key: A

Question No. 73

RMS value is defined based on which of the following?

A) Heating effect

B) Charge transfer

C) Current

D) Voltage

Answer Key: A

Question No. 74

Voltage is proportional to the rate of change of current for a/an-

A) Resistor

B) Capacitor

C) Inductor

D) Both capacitor and inductor

Answer Key: C

Question No. 75

In a megger, controlling torque is provided by the-

A) Spring

B) Gravity

C) Coil

D) Eddy current

Answer Key: C

Question No. 76

The chemical used in the breather of a transformer is-

A) Asbestos fibre

B) Silica sand

C) Sodium chloride

D) Silica gel

Answer Key: D

Question No. 77

Light is produced in electric discharge lamps by the-

A) Heating effect of current

B) Magnetic effect of current

C) Ionisation in a gas or vapour

D) Carbon electrodes

Answer Key: C

Question No. 78

A multimeter can measure-

A) Current

B) Voltage

C) Resistance

D) All of the options

Answer Key: D

Question No. 79

Which of the following appliances does/do NOT require earth connection for safety?

A) Washing machine

B) Refrigerator

C) Vacuum cleaner

D) Electric cooker

Answer Key: C

Question No. 80

If three resistors of 1 kΩ, 2 kΩ and 7 kΩ are connected in series with a 30 V supply, the total resistance and current are-

A) 10 kΩ, 3 A

B) 10 kΩ, 300 mA

C) 10 kΩ, 3 mA

D) 5 kΩ, 6 mA

Answer Key: C

Question No. 81

The spindle of the moving system in a PMMC instrument is supported at both ends with the help of-

A) Steel bearings

B) Bush bearings

C) Jewelled bearings

D) Gun metal bearings

Answer Key: C

Question No. 82

Four 100 W bulbs are connected in parallel across 200 V supply line. If one bulb gets fused-

A) No bulb will light

B) All the four bulbs will light

C) Rest of the three bulbs will light

D) Only 2 bulbs will light

Answer Key: C

Question No. 83

A fuse operates due to the _____ effect of electric current.

A) Magnetic

B) Electrostatic

C) Heating

D) Chemical

Answer Key: C

Question No. 84

The gas usually filled in the electric bulb is-

A) Carbon dioxide

B) Hydrogen

C) Nitrogen

D) Oxygen

Answer Key: C

Question No. 85

In a transmission system, a feeder feeds power to-

A) Power plant substations

B) Service mains

C) Generating substations

D) Distributors

Answer Key: D

Question No. 86

Distribution lines in India generally use-

A) Steel towers

B) Wooden poles

C) RCC poles

D) Iron poles

Answer Key: C

Question No. 87

What is the primary function of the starter in a DC motor?

A) To limit the starting current
B) To start the counting time of motor running
C) To develop high starting torque
D) To bring the motor quickly to full speed

Answer Key: A

Question No. 88

The power rating of a 470 Ω resistance with a current rating of 40 mA is-

A) 0.1 W
B) 0.3 W
C) 0.5 W
D) 0.75 W

Answer Key: D

Question No. 89

The unit of current is-

A) Volt
B) Ampere
C) Coulomb
D) Hertz

Answer Key: B

Question No. 90

The Tellegen's theorem can be applied to-

A) Linear and non-linear networks
B) Passive and active networks
C) Hysteric and non-hysteric networks
D) All of the options

Answer Key: D

Question No. 91

_____ is where the protection is provided by single or basic insulation, but has the same protective properties as double insulation.

A) Reinforced insulation
B) Concrete block insulation
C) Loose-fill insulation
D) Blown-in insulation

Answer Key: A

Question No. 92

Kirchhoff's Current Law (KCL) is the first law that deals with the conservation of-

A) Momentum
B) Mass
C) Charge
D) Linear momentum

Answer Key: C

Question No. 93

Electrostatic type instruments are primarily used as-

A) Ammeters
B) Voltmeters
C) Ohm-meters
D) LCR meters

Answer Key: B

Question No. 94

Which of the following instruments can be used both for AC and DC?

A) PMMC type

B) Induction type

C) Moving-iron type

D) Analog type

Answer Key: C

Question No. 95

The leakage resistance of a 50 km long cable is 1 MΩ. For a 100 km long cable, it will be-

A) 0.5 MΩ

B) 1.6 MΩ

C) 2 MΩ

D) 2.5 MΩ

Answer Key: A

Question No. 96

The maximum demand of a consumer is 2 kW and the daily energy consumption is 24 units. The load factor percentage is-

A) 20%

B) 40%

C) 50%

D) 80%

Answer Key: C

Question No. 97

Reciprocity theorem is applicable to _____, whether or not coupling and transformers are used.

A) Resistors

B) Capacitors

C) Inductors

D) All of the options

Answer Key: D

Question No. 98

Millman theorem is an extension of-

A) Norton theorem only

B) Thevenin theorem only

C) Superposition theorem only

D) Both Norton and Thevenin theorem

Answer Key: D

Question No. 99

The permanent magnet moving coil type instruments are most accurate for-

A) AC measurement

B) DC measurement

C) AC/DC measurement

D) Frequency measurement

Answer Key: B

Question No. 100

Which formula is used to calculate the demand factor?

A) Demand factor = Connected load / Maximum demand

B) Demand factor = Installed load / Running load

C) Demand factor = Maximum demand / Total connected load

D) Demand factor = Maximum generator demand / Generator capacity

Answer Key: C

Question No. 101

With which of the following games is Durand Cup associated?

A) Cricket

B) Football

C) Hockey

D) Volleyball

Answer Key: B

Question No. 102

When is "National Voter's Day" observed?

A) 20 May

B) 25 January

C) 4 June

D) 8 March

Answer Key: B

Question No. 103

Which is the first permanent research base station of India in Antarctica?

A) Maitri

B) Bharat

C) Agni

D) Dakshin Gangotri

Answer Key: D

Question No. 104

Most hazardous metal pollutant of the automobile exhaust is-

A) Lead

B) Mercury

C) Cadmium

D) Copper

Answer Key: A

Question No. 105

Which of the following gases is used as reference to calculate "Global Warming Potential (GWP)"?

A) Carbon dioxide

B) Methane

C) Ozone

D) Nitrogen dioxide

Answer Key: A

Question No. 106

Montreal protocol is related to-

A) Protection of Whales

B) Protection of Wild Life

C) Protection of Ozone layer

D) Nuclear weapons

Answer Key: C

Question No. 107

Fluoride pollution mainly affects which part of the body?

A) Liver

B) Teeth

C) Heart

D) Stomach

Answer Key: B

Question No. 108

The digits used in binary number system are-

A) 0, 0

B) 2, 1

C) 1, 0

D) 2, 2

Answer Key: C

Question No. 109

When the solid waste consists of large amounts of organic matter and if the moisture content is high, which of the method of treatment will be ideal?

A) Incineration

B) Palletizing

C) Recycle

D) Composting

Answer Key: D

Question No. 110

Which of the following is a kind of non-impact printer?

A) Line printers

B) Daisy-wheel printers

C) Dot-matrix printers

D) Ink-jet printers

Answer Key: D

Question No. 111

Which of the following was the first nuclear research reactor in India?

A) BHASKARA

B) ARYABHATA

C) ALANKAR

D) APSARA

Answer Key: D

Question No. 112

Which of the following represents a valid MAC address?

A) 00-D0-56-F2-B5-12

B) 00-63-T6-4H-7-7

C) 00-62-DE-6F-D2

D) 000-622-DE5-75E-EA6

Answer Key: A

Question No. 113

In the Microsoft 365 version of MS-Word Menu bar/Ribbon, which of these is/are NOT a hidden tab or menu?

A) Drawing Tools

B) File

C) Table Tools

D) Design

Answer Key: B

Question No. 114

What is the focus of the Mahila Samakhya programme?

A) Population control

B) Education and empowerment of women

C) Healthcare for women

D) Eradication of domestic abuse

Answer Key: B

Question No. 115

In air pollution, _____ is/are popularly used to denote mixtures of particulate matter, fumes, gases and mist.

A) Methyl isocyanate

B) Hydrocarbons

C) Smoke

D) Potassium

Answer Key: C

Question No. 116

In air pollution, ____ is/are infrequently given out by accidental spill from chemical manufacturing plants.

A) Hydrogen Chloride

B) Hydrocarbons

C) Hydrogen Fluoride

D) Particulate matter

Answer Key: A

Question No. 117

In air pollution, a low concentration of _____ causes headaches, nausea, lassitude, collapse, coma and death.

A) Sodium hydroxide

B) Hydrogen chloride

C) Hydrogen sulphide

D) Potassium chloride

Answer Key: C

Question No. 118

How is acid rain otherwise called?

A) Acid precipitation

B) Acid pollution

C) Acid coagulation

D) Acid contamination

Answer Key: A

Question No. 119

Third Schedule of Indian Constitution deals with-

A) Languages

B) Union, State and Concurrent List

C) Forms of Oaths or Affirmations

D) Allocation of seats in the Council of States

Answer Key: C

Question No. 120

The rigid outer layer of Earth's crust, consisting of rocks and soil is called the-

A) Atmosphere
B) Hydrosphere
C) Lithosphere
D) Biosphere

Answer Key: C

Question No. 121

_____ is a collection of tools that enabled administrator-level access to a computer or network.

A) Rootkit
B) Deskad
C) Trojan horse
D) Maze

Answer Key: A

Question No. 122

Which device stores computer data on magnetic tape?

A) Tape drive
B) CD drive
C) Flash drive
D) None of the options

Answer Key: A

Question No. 123

Which of these rivers both originates in and discharges into a sea in Southern India?

A) Sindh
B) Kaveri
C) Sutlej
D) Ravi

Answer Key: B

Question No. 124

The symbol "@" in an E-mail address is used to-

A) Add strength to email
B) Identify the receiver's location
C) Identify the sender's nickname
D) Separate the user id from the domain name

Answer Key: D

Question No. 125

Which is an overlay network that runs on the internet and can only be accessed by specialized software?

A) Darknet
B) Intranet
C) Extranet
D) None of the options

Answer Key: A

Question No. 126

In CPU, which of the following data paths allows multiple instructions to be executed at the same time?

A) General data path
B) Pipeline data path
C) Consistent cycle data path
D) Single cycle data path

Answer Key: B

Question No. 127

_____ is a type of variable that usually controls the access to the shared resources by several processes.

A) Semaphore
B) Deadlock
C) Barrier
D) Spinlock

Answer Key: A

Question No. 128

In a bid to prevent the proliferation of cybercrime via SMS scams, the DoT and MHA banned _____ SMS headers in May 2024.

A) Eight
B) One
C) Ninety
D) Sixty-one

Answer Key: A

Question No. 129

_____ was designated as the brand ambassador for Tobacco Control in May 2024.

A) Sachin Tendulkar
B) PV Sindhu
C) Sania Mirza
D) Mandeep Singh

Answer Key: B

Question No. 130

The process by which solid substance changes directly to vapour phase without passing through the intervening liquid phase is known as-

A) Evaporation
B) Precipitation
C) Sublimation
D) Transpiration

Answer Key: C

Question No. 131

With which sport is the term 'silly point' associated?

A) Cricket
B) Badminton
C) Hockey
D) Football

Answer Key: A

Question No. 132

Across which river is the Idukki Dam built?

A) Vedavati river
B) Periyar river
C) Aliyar river
D) Pegumbahalla river

Answer Key: B

Question No. 133

With whose name is the 'Do or Die' slogan associated?

A) Netaji Subhash Chandra Bose
B) Jawaharlal Nehru
C) Mahatma Gandhi
D) None of the options

Answer Key: C

Question No. 134

What is the full form of NABARD?

A) National Bank for Agriculture and Regional Development
B) National Bank for Agriculture and Rural Development
C) National Bank for Agriculture and Rural Department
D) National Bank for Agriculture and Regional Department

Answer Key: B

Question No. 135

_____ is known as the "Festival of Lights".

A) Diwali
B) Makar Sankranti
C) Gudi Padwa
D) Christmas

Answer Key: A

Question No. 136

Find the current (in mA) flowing through a wire of resistance 25 kΩ when a potential difference of 12.5 V is applied across it.

A) 5
B) 0.2
C) 0.5
D) 2

Answer Key: C

Question No. 137

The work to be done to increase the speed of a 0.5 kg ball from 4 m/s to 8 m/s is-

A) 4 J
B) 8 J
C) 12 J
D) 16 J

Answer Key: C

Question No. 138

A body of mass 10 kg is travelling at a speed of 5 m/s. What will be its kinetic energy?

A) 25 J
B) 125 J
C) 1250 J
D) 1260 J

Answer Key: B

Question No. 139

Which of the following is the atomic number of Mercury?

A) 77
B) 78
C) 79
D) 80

Answer Key: D

Question No. 140

Which of the following is the chemical symbol of Terbium?

A) Tb

B) Tl

C) Ts

D) Tm

Answer Key: A

Question No. 141

_____ reactions produce insoluble salts.

A) Precipitation

B) Combination

C) Reduction

D) Oxidation

Answer Key: A

Question No. 142

Which of the following gases is usually liberated when an acid reacts with a metal?

A) Carbon dioxide

B) Oxygen

C) Hydrogen

D) Nitrogen

Answer Key: C

Question No. 143

Which of the following is a natural magnet?

A) Magnetic needle

B) Bar magnet

C) Magnetite

D) Horseshoe magnet

Answer Key: C

Question No. 144

_____ is defined as the magnitude of the drift velocity per unit electric field.

A) Mobility

B) Electron

C) Doping

D) Amplitude

Answer Key: A

Question No. 145

Find the work done when a force of 50 N moves an object through a distance of 40 cm.

A) 10 J

B) 20 J

C) 30 J

D) 50 J

Answer Key: B

Question No. 146

Which of the following is NOT a paramagnetic material?

A) Molybdenum

B) Magnesium

C) Aluminium

D) Silicon

Answer Key: D

Question No. 147

In which of these reactions do two compounds exchange their ions to form two new compounds?

A) Displacement reaction
B) Combination reaction
C) Double displacement reaction
D) Redox reaction

Answer Key: C

Question No. 148

Solder is an alloy of-

A) Copper and aluminium
B) Iron and lead
C) Copper and tin
D) Lead and tin

Answer Key: D

Question No. 149

What is the colour of methyl orange in an alkaline solution?

A) Red
B) Yellow
C) Blue
D) Purple

Answer Key: B

Question No. 150

Which of the following is the major material used in alloy steel along with iron?

A) Mercury
B) Gold
C) Silver
D) Chromium

Answer Key: D