

Railway Recruitment Cell

Post Name : 06-Mechanical and allied Engineering

Exam Code : MASSYPMH

Exam Date : 19-06-2024

Exam Time : 9:30AM

Question No. 1

Which of the following laws states that equal volumes of all gases, at the same temperature and pressure, contain equal number of molecules?

- A) Charles' law
B) Boyle's law
C) Gay-lussac law
D) Avogadro's law

Answer Key: D

Question No. 2

The melting point of mild steel is approximately-

- A) 600°C
B) 800°C
C) 3000°C
D) 1450°C

Answer Key: D

Question No. 3

The process of removing the burnt gases in IC engines from the combustion chamber of the engine cylinder is known as-

- A) Supercharging
B) Scavenging
C) Polymerisation
D) Detonation

Answer Key: B

Question No. 4

Which of the following devices is used for holding and rotating a hollow workpiece?

- A) Mandrel
B) Carriers
C) Catch plate
D) Face plate

Answer Key: A

Question No. 5

A fishbone diagram is also known as-

- A) Taguchi diagram
B) Poka-yoke
C) Cause and effect diagram
D) Kaizen

Answer Key: C

Question No. 6

Which of the following is the softest abrasive?

- A) Fe₃O₄
B) SiC
C) CBN
D) Diamond

Answer Key: A

Question No. 7

Which of the following is/are the objective(s) of Normalising?

- A) To enhance the mechanical properties
- B) To remove internal stresses
- C) To improve the machinability
- D) All of the options

Answer Key: D

Question No. 8

The Hoop stress developed in thin cylinders is given by-

(where P = Internal pressure, d = Internal diameter and t = wall thickness)

- A) Pd/t
- B) $Pd/2t$
- C) $Pd/3t$
- D) $Pd/4t$

Answer Key: B

Question No. 9

Glazing in grinding wheels can be decreased by-

- A) Using a harder wheel or by increasing the wheel speed
- B) Using a softer wheel or by decreasing the wheel speed
- C) Using a harder wheel or by decreasing the wheel speed
- D) Using a softer wheel or by increasing the wheel speed

Answer Key: B

Question No. 10

The grinding of long, slender shafts or bars is usually done by-

- A) In-feed grinding
- B) Through-feed grinding
- C) End-feed grinding
- D) All of the options

Answer Key: B

Question No. 11

When soft materials are ground, metal particles getting clogged between abrasive particles is known as-

- A) Glazing
- B) Loading
- C) Dressing
- D) Truing

Answer Key: B

Question No. 12

A simply supported beam carries a UDL over its whole span. The bending moment diagram would be made of-

- A) Straight lines
- B) Parabolic curves
- C) Combination of straight lines and parabolic curves
- D) None of the options

Answer Key: B

Question No. 13

Which of the following processes is a constant-volume process?

A) Isochoric process

B) Isentropic process

C) Isobaric process

D) Isothermal process

Answer Key: A

Question No. 14

The torque required to produce a twist of one radian per unit length of the shaft is known as-

A) Polar modulus

B) Torsional rigidity

C) Flexural rigidity

D) Maximum twisting moment

Answer Key: B

Question No. 15

The property of a fluid by which molecules of different fluids are attracted to each other when they are in contact is called-

A) Adhesion

B) Cohesion

C) Viscosity

D) Compressibility

Answer Key: A

Question No. 16

A wound spring of the watch possesses-

A) Heat energy

B) Kinetic energy

C) Potential energy

D) Electric energy

Answer Key: C

Question No. 17

The amount of float on an activity, that does not affect float on preceding or succeeding activities is known as-

A) Total float

B) Free float

C) Interfering float

D) Independent float

Answer Key: D

Question No. 18

If two forces of 6 kN and 8 kN act at right angles to each other, then the resultant force will be-

A) 10 kN

B) 28 kN

C) 41 kN

D) 14 kN

Answer Key: A

Question No. 19

Darcy's friction factor in terms of the Reynolds number (Re) for laminar flow in circular pipes is-

A) $16/Re$

B) $32/Re$

C) $64/Re$

D) $128/Re$

Answer Key: C

Question No. 20

Which of the following losses is NOT a minor loss for a fluid flowing through a pipe?

- A) Loss due to sudden contraction
- B) Loss due to sudden enlargement
- C) Loss due to obstruction in flow
- D) Loss due to friction

Answer Key: D

Question No. 21

Varignon's theorem is also known as the principle of-

- A) Moments
- B) Forces
- C) Stress
- D) Strain

Answer Key: A

Question No. 22

When starting a centrifugal pump, the delivery valve is kept-

- A) Fully open
- B) Fully closed
- C) Half open
- D) Less than half open

Answer Key: B

Question No. 23

The maximum deflection of a fixed beam of length (L) carrying a central point load (W) is-

- A) $(WL^3)/(48 EI)$
- B) $(WL^3)/(96 EI)$
- C) $(WL^3)/(192 EI)$
- D) $(WL^3)/(384 EI)$

Answer Key: C

Question No. 24

In a refrigeration system, the expansion device is connected between the-

- A) Compressor and condenser
- B) Condenser and receiver
- C) Receiver and evaporator
- D) Evaporator and compressor

Answer Key: C

Question No. 25

_____ is the operation for making threads in a hole, or producing internal threads in a drilled hole.

- A) Reaming
- B) Boring
- C) Tapping
- D) Counter-sinking

Answer Key: C

Question No. 26

Which of the following electrodes is used in submerged arc welding?

- A) Bare electrode
- B) Light coated electrode
- C) Medium coated electrode
- D) Heavily coated electrode

Answer Key: A

Question No. 27

Which of the following gases is NOT used as a shielding gas in arc welding?

- A) Carbon dioxide
- B) Helium
- C) Argon
- D) Carbon monoxide

Answer Key: D

Question No. 28

In reverse polarity welding, the electrode holder is-

- A) Earthed and work is connected to positive
- B) Connected to negative and work connected to positive
- C) Connected to positive and work connected to negative
- D) Earthed and work is connected to negative

Answer Key: C

Question No. 29

The ratio of oxygen to acetylene in the neutral flame is-

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

Answer Key: A

Question No. 30

E6010 is a _____ tensile strength electrode.

- A) 60,000 psi
- B) 10,000 psi
- C) 61,000 psi
- D) 7,000 psi

Answer Key: A

Question No. 31

Which type of paint is manufactured by dissolving asphalt or vegetable bitumen in oil or petroleum?

- A) Enamel Paint
- B) Cement paint
- C) Bituminous paint
- D) Synthetic rubber paint

Answer Key: C

Question No. 32

In gas welding, the inclination of the blow pipe with respect to the plate in Leftward welding is-

- A) 30° to 40°
- B) 40° to 50°
- C) 60° to 70°
- D) 90° to 100°

Answer Key: C

Question No. 33

The distance from the joint root to the toe of the weld is-

- A) Leg of a fillet weld
- B) Face of a fillet weld

C) Actual throat

D) Effective throat

Answer Key: A

Question No. 34

Which of the following tools is a multi-point cutting tool?

A) Slotting tool

B) Boring tool

C) Broaching tool

D) Both slotting and boring tools

Answer Key: C

Question No. 35

The ignition quality of diesel oil is expressed by the-

A) Cetane number

B) Octane number

C) Calorific value

D) Both the octane number and calorific value

Answer Key: A

Question No. 36

Which of the following is an example of an isolated system?

A) A thermos flask

B) A pressure cooker

C) Boiling water without a lid

D) A cup of hot coffee

Answer Key: A

Question No. 37

Stainless steel owes its corrosion resistance due to the presence of-

A) Silicon

B) Chromium

C) Cobalt

D) Manganese

Answer Key: B

Question No. 38

Grinding is used for-

A) Enlarging the holes

B) Forming

C) Surface finishing

D) Lancing

Answer Key: C

Question No. 39

The G-ratio varies from _____ in fine grinding.

A) 10.0 to 20.0

B) 25.0 to 50.0

C) 1.0 to 5.0

D) 0.1 to 0.5

Answer Key: B

Question No. 40

Which of the following grain sizes is considered as very fine grain?

- A) 14
- C) 120

- B) 54
- D) 400

Answer Key: D

Question No. 41

In PERT, the shortest possible time required for the completion of activity is-

- A) Optimistic time
- C) Pessimistic time
- B) Most likely time
- D) Unlikely time

Answer Key: A

Question No. 42

Which of the following statements is TRUE about CPM and PERT?

- A) PERT is not concerned about time
- C) CPM is not a deterministic model
- B) CPM is activity oriented
- D) PERT is not event oriented

Answer Key: B

Question No. 43

Which of the following states that, "If a body is in equilibrium, under the action of three concurrent forces, each force is proportional to the sine of the angle between the other two forces"?

- A) Parallelogram law of forces
- C) Lami's theorem
- B) Transmissibility of forces
- D) Varignon's theorem

Answer Key: C

Question No. 44

The force applied on a body of mass 236 kg to produce an acceleration of 4 m/s^2 is-

- A) 59 N
- C) 472 N
- B) 118 N
- D) 944 N

Answer Key: D

Question No. 45

Moment of inertia of a rectangular section having width (b) and depth (d) about an axis passing through its centre of gravity and parallel to the depth, is-

- A) $db^3/12$
- C) $db^3/36$
- B) $bd^3/12$
- D) $bd^3/36$

Answer Key: A

Question No. 46

How long should a steel component be heat treated before nitriding?

- A) 5 – 20 hours
- C) 100 – 200 hours
- B) 21 – 100 hours
- D) 300 – 500 hours

Answer Key: B

Question No. 47

Which annealing process is carried out in a heavy casting to make austenitic grains homogeneous?

- A) Diffusion annealing
- B) Spheroidise annealing
- C) Process annealing
- D) Full annealing

Answer Key: A

Question No. 48

Which of the following is a slow rise of plastic deformation under the action of stresses below the yield strength of the material?

- A) Brittle fracture
- B) Ductile fracture
- C) Creep
- D) Fatigue

Answer Key: C

Question No. 49

The area moment of inertia of a semi-circular region having a diameter 'd' about its diametric axis on the base is-

- A) $\pi d^2 / 36$
- B) $\pi d^4 / 64$
- C) $\pi d^2 / 256$
- D) $\pi d^4 / 128$

Answer Key: D

Question No. 50

The Gantt chart is a type of chart which illustrates the-

- A) Project schedule
- B) Assignable causes of variation in a process
- C) Common causes of variation in a process
- D) Inventory status

Answer Key: A

Question No. 51

Which of the following is used to check the diameters of holes?

- A) Plug gauge
- B) Fillet gauge
- C) Slip gauge
- D) Standard screw pitch gauge

Answer Key: A

Question No. 52

What is the angle between the two surfaces of an angle plate?

- A) 45°
- B) 120°
- C) 90°
- D) 180°

Answer Key: C

Question No. 53

Stress at any point in a material is defined as-

- A) Load per unit time
- C) Modulus of rigidity

- B) Resisting force per unit area
- D) Young's modulus of elasticity per unit strain

Answer Key: B

Question No. 54

The efficiency of a heat engine working on the Carnot's cycle between 900°C and 300°C will be-

- A) 80%
- C) 66.66%
- B) 45.6%
- D) 51.15%

Answer Key: D

Question No. 55

In a polytropic process, if the value of $n = 1$, then the process will be a/an-

- A) Reversible process
- C) Adiabatic process
- B) Irreversible process
- D) Isothermal process

Answer Key: D

Question No. 56

Gas entrapment during the solidification of the weld bead is termed as-

- A) Spatter
- C) Distortion
- B) Porosity
- D) Overlapping

Answer Key: B

Question No. 57

Which of the following is the full form of PERT in network techniques?

- A) Program Evaluation and Review Technique
- C) Program Examination and Review Technique
- B) Program Examination and Revising Technique
- D) Program Evaluation and Revising Technique

Answer Key: A

Question No. 58

In a small engineering project, for an activity, the optimistic time is 2 minutes, the most likely time is 5 minutes and the pessimistic time is 8 minutes. What is the expected time of the activity?

- A) 1 minute
- C) 8 minutes
- B) 5 minutes
- D) 18 minutes

Answer Key: B

Question No. 59

Sherardising is a corrosion resistant coating of _____ on the surface of iron.

- A) Nickel
- C) Copper
- B) Zinc
- D) Aluminium

Answer Key: B

Question No. 60

The chemical formula for cementite is-

- A) FeC
B) Fe₂C₃
C) Fe₃C
D) FeC₃

Answer Key: C

Question No. 61

If the zero of the Vernier scale is on the right of the zero of the main scale, then the-

- A) Zero error will be negative
B) Zero correction will be positive
C) Zero error will be negative and zero correction will be positive
D) Zero error will be positive

Answer Key: D

Note: Translation error in Tamil and hence mark is awarded to candidates who have taken the exam in tamil.

Question No. 62

Pyrometer is a device which is related to-

- A) Density measurements
B) Pressure measurements
C) Temperature measurements
D) Volume measurements

Answer Key: C

Question No. 63

Which type of gear will be used for non-intersecting perpendicular shafts?

- A) Helical gears
B) Spur gears
C) Hypoid gears
D) Herringbone gears

Answer Key: C

Question No. 64

The size of an abrasive particle is usually expressed in terms of-

- A) Sieve number
B) Grashof number
C) Prandtl number
D) Nusselt number

Answer Key: A

Question No. 65

In a fixed beam having a uniformly distributed load over the whole span, the moments will be calculated by the formula-

- A) $WL^2 / 12$
B) $WL^3 / 8$
C) $WL^2 / 8$
D) $WL^3 / 12$

Answer Key: A

Question No. 66

In a particular material, if the modulus of rigidity is equal to the bulk modulus, then the Poisson's ratio will be-

- A) 1/8
- B) 1/4
- C) 1/2
- D) 1

Answer Key: A

Question No. 67

Which of the following generally does NOT make use of lead?

- A) Ammunition
- B) Batteries
- C) Solder
- D) GI sheet

Answer Key: D

Question No. 68

The cutting tool moving in a vertical reciprocating motion in a machine tool is called the-

- A) Slotter
- B) Lathe
- C) Planer
- D) Shaper

Answer Key: A

Question No. 69

The variation in the volume of a liquid with the variation of pressure is called its-

- A) Surface tension
- B) Compressibility
- C) Capillarity
- D) Viscosity

Answer Key: B

Question No. 70

Which of the following statements is FALSE with regard to shaper?

- A) Job is held rigidly on a fixed bed
- B) The cutting tool remains stationary
- C) The tool is mounted on the tool post fitted at the end of ram
- D) The cutting stroke is slower than the idle stroke

Answer Key: B

Question No. 71

Which of the following are constituents of phosphor-bronze?

- A) Nickel, copper and cobalt
- B) Copper, zinc and manganese
- C) Copper, tin and phosphorus
- D) Aluminium, copper and nickel

Answer Key: C

Question No. 72

Which of the following conditions is related to Clearance fit?

- A) Hole > Shaft
- B) Hole < Shaft

C) Hole = Shaft

D) All of the options

Answer Key: A

Question No. 73

Which of the following is known as the Hermaphrodite caliper?

A) Outside caliper

B) Inside caliper

C) Transfer caliper

D) Odd-leg caliper

Answer Key: D

Question No. 74

The least count of a metric Vernier calliper having 25 divisions on the Vernier scale, matching with the 24 divisions of the main scale (1 main scale division = 0.5 mm) is-

A) 0.005 mm

B) 0.01 mm

C) 0.02 mm

D) 0.1 mm

Answer Key: C

Question No. 75

What does the linear momentum of a body equal?

A) Speed x time

B) Mass x Velocity

C) Force x Distance

D) Displacement x Distance

Answer Key: B

Question No. 76

The heat transfer in gases and liquids takes place by-

A) Conduction

B) Radiation

C) Convection

D) All of the options

Answer Key: C

Question No. 77

What is the apparent weight of a man, if the acceleration of lift is zero?

A) Apparent weight is equal to normal weight

B) Apparent weight is greater than normal weight

C) Apparent weight is less than normal weight

D) Zero weight

Answer Key: A

Question No. 78

The value of Poisson's ratio of lead lies in the range of-

A) 0.12 – 0.20

B) 0.40 – 0.45

C) 0.55 – 0.69

D) 0.75 – 0.82

Answer Key: B

Question No. 79

If 10 m³ of mercury weighs 136 x 10⁴ N, then calculate its specific weight.

- A) 136000 N/m³
- B) 13.6 N/m³
- C) 0.136 N/m³
- D) 1.36 N/m³

Answer Key: A

Question No. 80

In actual machines, which of the following is CORRECT?

- A) Mechanical advantage is equal to velocity ratio
- B) Mechanical advantage is greater than velocity ratio
- C) Mechanical advantage is less than velocity ratio
- D) Mechanical advantage is unity

Answer Key: C

Question No. 81

Miter gears are a type of-

- A) Spur gears
- B) Helical gears
- C) Herringbone gears
- D) Bevel gears

Answer Key: D

Question No. 82

Which of the following is a type of solid state welding?

- A) Ultrasonic welding
- B) Thermit welding
- C) Atomic hydrogen welding
- D) Laser beam welding

Answer Key: A

Question No. 83

Which of the following electrodes falls into the flat and horizontal welding position category?

- A) E6010
- B) E6011
- C) E6012
- D) E7024

Answer Key: D

Question No. 84

In a centrifugal pump casing, the flow of water leaving the impeller is-

- A) Rectilinear flow
- B) Centrifugal flow
- C) Radial flow
- D) Free vortex flow

Answer Key: D

Question No. 85

VED analysis refers to the classification of inventory items as-

- A) Vast, Essential and Demand items
- B) Vital, Efficient and Difficult items
- C) Valid, Easy and Difficult items
- D) Vital, Essential and Desirable items

Answer Key: D

Question No. 86

A PERT activity has an optimistic time estimate of 3 days, a pessimistic time estimate of 8 days and a most likely time estimate of 10 days. What is the expected time of this activity?

- A) 5 days
- B) 7.5 days
- C) 8 days
- D) 8.5 days

Answer Key: D

Question No. 87

One watt is equal to-

- A) 0.1 joule/s
- B) 1 joule/s
- C) 10 joules/s
- D) 100 joules/s

Answer Key: B

Question No. 88

The major application of an hydrometer is to determine-

- A) Relative humidity
- B) Buoyancy force
- C) Specific gravity of liquids
- D) Viscosity of liquids

Answer Key: C

Question No. 89

The power transmitted through a pipe is the maximum when the loss of head due to friction is _____ at the inlet of the pipe. (Total head is denoted by H)

- A) $H/4$
- B) $H/3$
- C) $H/2$
- D) $2H/3$

Answer Key: B

Question No. 90

Which of the following gauges is/are a GO-NO GO gauge?

- A) Plug gauge
- B) Ring gauge
- C) Snap gauge
- D) All of the options

Answer Key: D

Question No. 91

Which of the following tools is used for straight line cutting of sheet metal?

- A) Snip
- B) File
- C) Punch
- D) Stake

Answer Key: A

Question No. 92

The temperature which has the same value on both the Celsius and Fahrenheit scales is-

- A) -40°
- B) -32°

C) -65°

D) -100°

Answer Key: A

Question No. 93

A _____ is used to hold large, heavy and irregular shaped workpieces which cannot be conveniently held between centres.

A) Driving plate

B) Face plate

C) Catch plate

D) Plain mandrel

Answer Key: B

Question No. 94

In ABC analysis, which of the following items have the lowest consumption value?

A) A items

B) B items

C) C items

D) Both A and B items

Answer Key: C

Question No. 95

Determine Young's modulus, when 2 N/m^2 is applied to produce a strain of 0.5.

A) 4 N/m^2

B) 5 N/m^2

C) 6 N/m^2

D) 7 N/m^2

Answer Key: A

Question No. 96

Stick micrometers are used for measuring the-

A) External diameter

B) Longer internal lengths

C) Longer external lengths

D) Shorter thickness

Answer Key: B

Question No. 97

Which of the following devices CANNOT be used to measure pressure?

A) Manometer

B) Piezometer

C) Bolometer

D) Bourdon gauge

Answer Key: C

Question No. 98

If the pressure below the nappe is negative, then the nappe is called-

A) Free nappe

B) Depressed nappe

C) Clinging nappe

D) Fire nappe

Answer Key: B

Question No. 99

Ductile cast iron is produced by adding-

- A) Zirconium
- B) Magnesium
- C) Chromium
- D) Manganese

Answer Key: B

Question No. 100

Which of the following metals has the highest melting point?

- A) Aluminium
- B) Copper
- C) Brass
- D) Carbon steel

Answer Key: D

Question No. 101

How many languages are there in the Eighth Schedule of our Constitution?

- A) 12
- B) 14
- C) 16
- D) 22

Answer Key: D

Question No. 102

Which of the following refers to memory in a computer?

- A) RAM
- B) DSL
- C) USB
- D) LAN

Answer Key: A

Question No. 103

In which country's spacecraft did Rakesh Sharma travel into space?

- A) Japan
- B) Germany
- C) Soviet Union
- D) UK

Answer Key: C

Question No. 104

Which of the following is the unit of measurement of the "Ecological Footprint"?

- A) Global hectare
- B) Nanometer
- C) Cubic ton
- D) Hoppus cubic foot

Answer Key: A

Question No. 105

India's first hydro-engineering college is located in-

- A) Bilaspur
- B) Kochi
- C) Chandigarh
- D) Visakhapatnam

Answer Key: A

Question No. 106

Identify the incorrectly matched pair.

- A) Rourkela - Odisha
- B) Bhilai - Bihar
- C) Durgapur - West Bengal
- D) Bhadravati - Karnataka

Answer Key: B

Question No. 107

Decomposition of domestic wastes under natural processes is called-

- A) Industrial pollution
- B) Thermal pollution
- C) Biodegradable pollution
- D) Non-biodegradable pollution

Answer Key: C

Question No. 108

What is the use of output devices?

- A) To store data
- B) To scan data
- C) To view or print data
- D) To input data

Answer Key: C

Question No. 109

Which of the following is/are the browser(s) developed and released by Apple Inc.?

- A) Internet Explorer
- B) Mosaic
- C) Opera
- D) Safari

Answer Key: D

Question No. 110

Microsoft PowerPoint is a-

- A) Database program
- B) Spreadsheet program
- C) Word processing program
- D) Presentation program

Answer Key: D

Question No. 111

In water pollution, turbidity and water colour can be regarded as-

- A) Non-aesthetic pollutants
- B) Aesthetic pollutants
- C) Both aesthetic and non-aesthetic pollutants
- D) Non-visual pollution

Answer Key: B

Question No. 112

What is the duration of seventh five-year plan?

- A) 1974–1978
- B) 1985–1990
- C) 1992–1997
- D) 1997–2002

Answer Key: B

Question No. 113

Which of the following is a sedimentary bio-geo-chemical cycle?

- A) Nitrogen cycle
- B) Carbon cycle
- C) Oxygen cycle
- D) Phosphorus cycle

Answer Key: D

Question No. 114

The world of non-living elements is called-

- A) Biotic
- B) Abiotic
- C) Biotic and Abiotic
- D) None of the options

Answer Key: B

Question No. 115

Which type of malware infects your computer's hardware and firmware?

- A) Spider bot
- B) Rootkit
- C) Webkit
- D) Keyloggers

Answer Key: B

Question No. 116

Which of the following is a man-made cause of global warming?

- A) Water vapour
- B) Volcanoes
- C) Chlorofluorocarbons
- D) Forest blazes

Answer Key: C

Question No. 117

What is the result of the binary addition of the binary numbers $(101001)_2$ and $(010011)_2$?

- A) $(111100)_2$
- B) $(010100)_2$
- C) $(101110)_2$
- D) $(000111)_2$

Answer Key: A

Question No. 118

Which of the following protocols is used to send messages through email?

- A) UDP
- B) SMTP
- C) SSH
- D) DHCP

Answer Key: B

Question No. 119

Which type of network enables communication between minuscule sensors and actuators?

- A) Storage Area Networks
- B) Enterprise Private Networks

C) Nanoscale Networks

D) Campus Area Networks

Answer Key: C

Question No. 120

Which of the following memory is implemented using the semiconductor chips?

A) Secondary memory

B) Main memory

C) Cache memory

D) Optical disks

Answer Key: B

Question No. 121

A _____ is kind of a secret entry point into a program that allows anyone to gain access to any system without going through the usual security access procedures.

A) Double door

B) Trap door

C) Trojan horse

D) Logic bomb

Answer Key: B

Question No. 122

The Indian Government in 2024 introduced a new numbering series _____ for making service or transactional calls, to help citizens easily identify legitimate calls

A) 260xxxxxxx

B) 160xxxxxxx

C) 360xxxxxxx

D) 460xxxxxxx

Answer Key: B

Question No. 123

Which entity cracked down on gaming apps in May 2024 that mirrored virtual trading, simulating real-time stock prices in their games?

A) Income Tax Department

B) RBI

C) Ministry of Information Technology

D) SEBI

Answer Key: D

Question No. 124

Which of the following is NOT a natural source of air pollution?

A) Pollen grains

B) Forest fires

C) Vehicular emissions

D) Marshes

Answer Key: C

Question No. 125

Where are Ozone holes predominantly found in the Earth?

A) Poles

B) Equator

C) Tropic of Cancer

D) Tropic of Capricorn

Answer Key: A

Question No. 126

Which of the following is NOT an air pollutant?

- A) Nitrogen
- B) Hydrocarbons
- C) Chromium
- D) Carbon dioxide

Answer Key: A

Question No. 127

What is the term for the process of using living organisms to clean up or reduce environmental pollution?

- A) Over consumption
- B) Soil erosion
- C) Green washing
- D) Bioremediation

Answer Key: D

Question No. 128

Acid rain usually has a pH between-

- A) 11 and 14
- B) 7 and 9
- C) 4.2 and 4.4
- D) 8.8 and 12.3

Answer Key: C

Question No. 129

When was the Third Battle of Panipat fought?

- A) 1561
- B) 1623
- C) 1671
- D) 1761

Answer Key: D

Question No. 130

With which of the following dances is Rajendra Gangani associated?

- A) Bharatanatyam
- B) Kuchipudi
- C) Kathak
- D) Odissi

Answer Key: C

Question No. 131

In which of the following years was the First Five-Year Plan launched?

- A) 1951
- B) 1956
- C) 1961
- D) 1965

Answer Key: A

Question No. 132

With which of the following sports is Tiger Woods associated?

- A) Table tennis
- B) Tennis
- C) Golf
- D) Boxing

Answer Key: C

Question No. 133

Which of these is a hill station in Rajasthan?

- A) Kasauli
B) Mount Abu
C) Panchgani
D) Nainital

Answer Key: B

Question No. 134

Which of the following industries is NOT covered in the Index of Eight Core Industries?

- A) Electricity
B) Crude Oil
C) Natural Gas
D) Pharmaceuticals

Answer Key: D

Question No. 135

Ryder Cup is related to which sport?

- A) Polo
B) Golf
C) Football
D) Tennis

Answer Key: B

Question No. 136

The common name of Sodium Hydrogen Carbonate is-

- A) Epsom salt
B) Milk of magnesia
C) Baking soda
D) Common salt

Answer Key: C

Question No. 137

Which element has the greatest tendency to attract electrons?

- A) Iron
B) Fluorine
C) Boron
D) Sulphur

Answer Key: B

Question No. 138

The chemical formula of Perchloric acid is-

- A) HClO
B) HClO₂
C) HClO₃
D) HClO₄

Answer Key: D

Question No. 139

Anodising is a process of forming a thick oxide layer of-

- A) Aluminium
B) Calcium

C) Potassium

D) Iron

Answer Key: A

Question No. 140

Which of the following acids is found in tomatoes?

A) Malic acid

B) Tartaric acid

C) Hydrochloric acid

D) Acetic acid

Answer Key: A

Question No. 141

The filament of electric bulb is made of-

A) Tungsten

B) Nichrome

C) Stainless steel

D) Manganin

Answer Key: A

Question No. 142

When two forces act on a body along the same direction, then the net force is equal to-

A) A negative value

B) Zero

C) The sum of the individual forces

D) None of the options

Answer Key: C

Question No. 143

The energy possessed by a body by virtue of its motion is called-

A) Potential energy

B) Kinetic energy

C) Thermal energy

D) Heat energy

Answer Key: B

Question No. 144

Which rule helps to determine the direction of the magnetic field associated with a current-carrying conductor?

A) Ohm's law

B) Faraday's law

C) Maxwell's right-Hand Thumb Rule

D) Thermodynamics law

Answer Key: C

Question No. 145

How much time will be required to perform 520 J of work at the rate of 20 W?

A) 24 seconds

B) 16 seconds

C) 20 seconds

D) 26 seconds

Answer Key: D

Question No. 146

The ratio of the intensity of magnetization to magnetizing field is called-

- A) Reactance
- C) Electro-magnetic induction

- B) Magnetic susceptibility
- D) Reluctance

Answer Key: B

Question No. 147

How much work is done in moving a charge of 3 C across two points having a potential difference 13 V?

- A) 22 J
- C) 39 J
- B) 46 J
- D) 119 J

Answer Key: C

Question No. 148

If heating is employed for a decomposition reaction, then what type of reaction occurs?

- A) Thermal decomposition
- C) Electrolytic decomposition reaction
- B) Photo decomposition reaction
- D) Non-electrolytic decomposition reaction

Answer Key: A

Question No. 149

The second most abundant element in the earth's crust is-

- A) Calcium
- C) Potassium
- B) Silicon
- D) Sodium

Answer Key: B

Question No. 150

Which of the following elements has the lowest atomic mass?

- A) Helium
- C) Lithium
- B) Hydrogen
- D) Nitrogen

Answer Key: B