

RRB

**Previous Year Paper
JE ME CBT 2
(31 Aug 2019)**

150 Questions

Que. 1 Which two words appeared on the first postage stamp of independent India?

1. Jai Hind
2. Vande Mataram
3. Jai Kisan
4. Jai Bharat

Correct Option - 1

Que. 2 When Mach number is less than unity, the flow is called-

1. Hyper-sonic flow
2. Sonic flow
3. Super-sonic flow
4. Sub-sonic flow

Correct Option - 4

Que. 3 A cutting tool can never have its

1. Clearance angle – positive
2. Rake angle – positive
3. Clearance angle – negative
4. Rake angle – negative

Correct Option - 3

Que. 4 The rate at which the entire organization generates money through sales for a product or service is

1. Operating expense
2. Inventory
3. Takt time
4. Throughput

Correct Option - 4

Que. 5 _____ is a group of fine holes on the surface of the weld caused by gas entrapment.

1. Gas pocket
2. Blow holes
3. Porosity
4. Crack

Correct Option - 3

Que. 6 In a vernier calliper, the main scale reads in millimetres with a least count of 0.1 mm. Ten divisions on the vernier correspond to nine divisions of the main scale. Determine the least count of the calliper.

1. 0.001 mm
2. 1 mm
3. 0.1 mm

4. 0.01 mm

Correct Option - 3

Que. 7 What is meant by HVOF in metal coating?

1. High Velocity Oxidised Filler
2. High Viscous Oxidised Fluid
3. High Viscous Oxygen Fuel
4. High Velocity Oxygen Fuel

Correct Option - 4

Que. 8 Determine the elevation for 30° using 5.00" sine bar.

1. 2.5000"
2. 2.8679"
3. 3.8302"
4. 1.7101"

Correct Option - 1

Que. 9 _____ is used to move the carriage automatically during threading.

1. Bed
2. Hand wheel
3. Feed rod
4. Lead screw

Correct Option - 4

Que. 10 Control volume in a thermodynamic system refers to-

1. A specified mass in fluid flow
2. Mass that moves across the boundary
3. Transfer of energy across the boundary
4. Fixed region in space for thermodynamic study

Correct Option - 4

Que. 11 The temperature point at which the change starts on heating the steel is called

1. Point of recalescence
2. Point of decalescence
3. Upper critical point
4. Lower critical point

Correct Option - 4

Que. 12 Which of the following operations does NOT use a Multiple-point cutting tool?

1. Broaching
2. Drilling
3. Turning
4. Milling

Correct Option - 3

Que. 13 If ' α ' is coefficient of thermal expansion, ' ΔT ' is magnitude of change in temperature and 'E' is modulus of elasticity, then the expression for thermal stress induced in a rod of length 'l' that is fixed between two rigid ends is given as-

1. $\alpha El \Delta T$
2. $\alpha E \Delta T$
3. $\alpha \Delta T / El$
4. $\alpha l \Delta T$

Correct Option - 2

Que. 14 Grain size range between 90 and 220 is considered as-

1. Very fine grain
2. Coarse grain
3. Normal grain
4. Fine grain

Correct Option - 4

Que. 15 After New moon, the next fourteen days where the moon grows thicker and thicker and becomes visible as a full, near-perfect round moon is called as which phase of the moon?

1. Waxing phase of the moon
2. Waning phase of the moon
3. Decreasing phase of the moon
4. Vanishing phase of the moon

Correct Option - 1

Que. 16 Which of the following shutdown methods is often called Warm Boot?

1. Restart
2. Sleep
3. Shut Down
4. Hibernate

Correct Option - 1

Que. 17 The first instrument for routine monitoring of total ozone was developed by-

1. William Sturgeon
2. Samuel Langley
3. Robert Moog
4. Gordon M. B. Dobson

Correct Option - 4

Que. 18 Who has won the Sir Garfield Sobers Trophy for Cricketer of the Year 2017?

1. Steve Smith
2. Virat Kohli
3. Ravindra Jadeja
4. Ravichandran Ashwin

Correct Option - 2

Que. 19 Which of the following indicates the amount of superabrasive grit in a grinding wheel?

1. Grade
2. Structure
3. Concentration
4. Grit

Correct Option - 3

Que. 20 Silicon steel is widely used for-

1. Connecting rods
2. Transformers
3. Cutting tools
4. Motor crank shafts

Correct Option - 2

Que. 21 A hollow steel column has to carry an axial load of 2,00,000 kg and the ultimate stress for the steel column is 4800 kg/cm^2 and allows a load factor of 4. What is the sectional area of the column?

1. 196.66 cm^2
2. 166.66 cm^2
3. 180.66 cm^2
4. 176.66 cm^2

Correct Option - 2

Que. 22 Paramparagat Krishi Vikas Yojana was launched in April, 2015 to support and promote-

1. Oil production
2. Organic farming
3. Wheat agriculture
4. Vegetable farming

Correct Option - 2

Que. 23 The angle between the resultant reaction and normal to the plane on which the motion of body is impending is known as-

1. Angle of zenith
2. Angle of limiting friction
3. Angle of friction
4. Angle of repose

Correct Option - 2

Que. 24 Which of the following is an organic flux?

1. Tallow
2. Hydrochloric acid
3. Zinc chloride
4. Phosphoric acid

Correct Option - 1

Que. 25 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-

1. $bd^3/36$
2. $db^3/36$
3. $bd^3/12$
4. $db^3/12$

Correct Option - 4

Que. 26 The number '120' in the grinding wheel R D 120 N 100 M 4 specifies the__

1. Concentration Number
2. Abrasive strength
3. Average grain size
4. Hardness of grinding wheel

Correct Option - 3

Que. 27 The ratio of oxygen to acetylene in the neutral flame is-

1. 1 : 3
2. 2 : 1
3. 3 : 1
4. 1 : 1

Correct Option - 4

Que. 28 Where was the 27th Fusion Energy Conference (FEC) inaugurated on 22 October 2018?

1. Haryana
2. Rajasthan
3. Gujarat
4. Punjab
5. Jharkhand

Correct Option - 3

Que. 29 Participatory notes are associated with which of the following?

1. Foreign Institutional Investors
2. Port Folio Investors
3. Mutual Fund Investors
4. Cryptocurrency investors

Correct Option - 1

Que. 30 The horizontal feed in a lathe is controlled by-

1. Apron
2. Headstock
3. Cross-slide
4. Tailstock

Correct Option - 1

Que. 31 Which will form amphoteric oxide?

1. Zn
2. Na
3. Ca
4. Al

Correct Option - 4

Que. 32 Up milling is also called as

1. End milling
2. Face milling
3. Climb milling
4. Conventional milling

Correct Option - 4

Que. 33 Through which of the following states does the Chambal river flow?

1. Uttar Pradesh
2. Rajasthan
3. All of the options
4. Madhya Pradesh

Correct Option - 3

Que. 34 India's first National Centre for Marine Bio-diversity (NCMB) is located in-

1. Mumbai
2. Puducherry
3. Bhavnagar
4. Jamnagar

Correct Option - 4

Que. 35 For which surfaces, is a spirit level used for testing straightness ?

1. Horizontal surfaces
2. Both Horizontal and vertical surfaces
3. Inclined surfaces
4. Vertical surfaces

Correct Option - 2

Que. 36 The failure of the material due to cyclic loads is known as-

1. Embrittlement
2. Fatigue
3. Impact failure
4. Creep

Correct Option - 2

Que. 37 When the dispersed phase is gas and dispersing medium is solid and the type of colloid is-

1. Aerosol
2. Gel
3. Emulsion
4. Foam

Correct Option - 4

Que. 38 The efficiency of a screw jack is maximum, when
Where α = Helix angle and ϕ = Angle of friction.

1. $\alpha = 45^\circ + \frac{\phi}{2}$
2. $\alpha = 45^\circ - \frac{\phi}{2}$
3. $\alpha = 90^\circ + \phi$
4. $\alpha = 90^\circ - \phi$

Correct Option - 2

Que. 39 The performance of cache memory is frequently measured in terms of a quantity called _____.

1. Register
2. Associative Mapping
3. Hit ratio
4. Set-associative Mapping

Correct Option - 3

Que. 40 The height by which a tooth of a gear projects beyond the standard pitch circle or pitch line is technically known as-

1. Dedundum
2. Addendum
3. Pitch radius
4. Backlash

Correct Option - 2

Que. 41 Which of the following is equal to a pressure of 25 m head of water?
(Take $g = 9.8 \text{ m/s}^2$)

1. 25 kN/m^2
2. 2500 kN/m^2
3. 245 kN/m^2
4. 2.5 kN/m^2

Correct Option - 3

Que. 42 The electron distribution in a magnesium atom is-

1. 8, 2, 2
2. 8, 2, 3
3. 2, 8, 3
4. 2, 8, 2

Correct Option - 4

Que. 43 Which of the following distribution represents the time estimates in PERT ?

1. Poisson distribution
2. Normal distribution
3. Beta distribution
4. Weibull distribution

Correct Option - 3

Que. 44 The operation which is done to make periphery of grinding wheel concentric with its axis to recover its lost shape is known as-

1. Truing
2. Dressing
3. Glazing
4. Loading

Correct Option - 1

Que. 45 Chilled cast iron is produced _____

1. All of the options
2. By adding magnesium to molten cast iron
3. From white cast iron by annealing process
4. By cooling of molten cast iron

Correct Option - 4

Que. 46 A hydraulic press is based on the principle of-

1. Boyle's law
2. Newton's law
3. Charles' law
4. Pascal's law

Correct Option - 4

Que. 47 When the pressure intensity at a point is more than the local atmospheric pressure, then the difference of these two pressures is called-

1. Positive gauge pressure
2. Barometric pressure
3. Absolute pressure
4. Negative gauge pressure

Correct Option - 1

Que. 48 Which of the following is an example of paramagnetic material?

1. Tantalum
2. Gold
3. Copper
4. Silver

Correct Option - 1

Que. 49 The science that deals with the relationship of various organisms with their environment is known as-

1. Cytology
2. Geology
3. Anthropology
4. Ecology

Correct Option - 4

Que. 50 The sum of the clearance angle, rake angle and cutting wedge angle is always equal to ____

1. 360°
2. 90°
3. 180°
4. 45°

Correct Option - 2

Que. 51 Nixan Gold Cup is associated with which sport?

1. Basketball
2. Badminton
3. Football
4. Volleyball

Correct Option - 3

Que. 52 The first Commonwealth Games in 1930 was held in which country?

1. Australia
2. England
3. New Zealand
4. Canada

Correct Option - 4

Que. 53 Bimbisara was the ruler of-

1. Gandhara
2. Magadha
3. Taxila
4. Mathura

Correct Option - 2

Que. 54 Which carburising method has high production rate ?

1. Gas carburising
2. Pack carburising
3. Liquid carburising
4. Solid powder carburising

Correct Option - 1

Que. 55 In which of the following operation of lathe machine is the tool NOT feed in a straight path ?

1. Taper turning

2. Contour turning
3. Form turning
4. Facing

Correct Option - 2

Que. 56 _____ is the death rate per thousand individuals

1. Emigration rate
2. Natality rate
3. Mortality rate
4. Immigration rate

Correct Option - 3

Que. 57 Cholera is caused by the bacteria called-

1. Salmonella typhi
2. Clostridium botulinum
3. Treponema palladium
4. Vibrio cholerae

Correct Option - 4

Que. 58 _____ is also called line layout.

1. Process layout
2. Functional layout
3. Product layout
4. Fixed position layout

Correct Option - 3

Que. 59 Which of the following processes is an example of a reversible process ?

1. Heat transfer
2. Electrolysis
3. Combustion
4. Plastic deformation

Correct Option - 2

Que. 60 The Stockholm Convention on Persistent Organic Pollutants (POPs) was signed in the year-

1. 2000
2. 2001
3. 1998
4. 1999

Correct Option - 2

Que. 61 Free of cost repair of software bug available at Internet is called

1. Version
2. Ad-on
3. Tutorial

4. Patch

Correct Option - 4

Que. 62 If W is weight of a body, α is angle of an inclined plane and ϕ is angle of friction, then the force required to drag the body when it is just impending to move the plane, is_____

1. $W \tan(\alpha + \phi)$
2. $W \cos(\alpha + \phi)$
3. $W \sin(\alpha + \phi)$
4. $W \sec(\alpha + \phi)$

Correct Option - 1

Que. 63 What is the SI unit of Electric Potential Difference?

1. Watts
2. Volt
3. Ohms
4. Coulomb

Correct Option - 2

Que. 64 What is the chemical symbol of acetylene gas?

1. C_2H_2
2. CH_3
3. C_3H_2
4. CH_2

Correct Option - 1

Que. 65 Which of the following contains Citric acid?

1. Tomato
2. Orange
3. Tamarind
4. Sour milk

Correct Option - 2

Que. 66 If the Reynolds number is less than 2000, the flow in pipe is -

1. Transitional from laminar to turbulent
2. Turbulent
3. Inviscid
4. Laminar

Correct Option - 4

Que. 67 Which of the following processes permits the transformation of austenite to martensite, throughout the crosssection of a component without cracking or distortion?

1. Austempering
2. Marquenching
3. Annealing

4. Tempering

Correct Option - 2

Que. 68 Which of the following processes uses non-consumable electrode?

1. MIG welding
2. Electroslag welding
3. TIG welding
4. Laser welding

Correct Option - 3

Que. 69 Which of the following is NOT a type of virus?

1. Polymorphic
2. McAfee
3. Multipartite
4. Boot sector

Correct Option - 2

Que. 70 In Rockwell hardness testing method, the hardness of a material is measured by-

1. Material failure
2. Surface roughness
3. Elongation of material
4. Depth of indentation

Correct Option - 4

Que. 71 Gun metal contains 2 percent of-

1. Copper
2. Tin
3. Nickel
4. Zinc

Correct Option - 4

Que. 72 Heat is absorbed by a refrigerant during a refrigeration cycle in a-

1. Condenser
2. Throttle valve
3. Evaporator
4. Compressor

Correct Option - 3

Que. 73 What is the full form of CMM?

1. Current Measuring Machine
2. Coordinate Monitoring Machine
3. Coordinate Measuring Machine
4. Cantilever Measuring Machine

Correct Option - 3

Que. 74 Soft solder consists of-

1. Copper and tin
2. Lead and zinc
3. Lead and tin
4. Lead and aluminium

Correct Option - 3

Que. 75 The ratio of actual discharge of a jet of water to its theoretical discharge is known as-

1. Coefficient of velocity
2. Coefficient of discharge
3. Coefficient of viscosity
4. Coefficient of contraction

Correct Option - 2

Que. 76 The internal energy of a perfect gas depends on

1. Temperature, entropy and specific heats
2. Temperature only
3. Temperature, pressure and specific heats
4. Temperature, enthalpy and specific heats

Correct Option - 2

Que. 77 Which of the following is the India's first Arctic Research station?

1. Himadri
2. Dakshin Gangotri
3. Maitri
4. Bharati

Correct Option - 1

Que. 78 Action and reaction act on

1. Same body and in same direction
2. Same body but in opposite direction
3. Different bodies but in same direction
4. Different bodies but in opposite direction

Correct Option - 4

Que. 79 Who among the following won the Orange Cap in the 2019 VIVO IPL?

1. KL Rahul
2. Shikhar Dhawan
3. David Warner
4. Chris Gayle

Correct Option - 3

Que. 80 In which of the following cities did the Jallianwala Bagh massacre take place?

1. Amritsar
2. Patiala
3. Bhatinda
4. Jalandhar

Correct Option - 1

Que. 81 The demand rate for a particular item is 12000 units/year. The ordering cost is Rs. 100 per order and the holding cost is Rs. 0.80 per item per month. If no shortages are allowed and the replacement is instantaneous, then the number of orders per year is

1. 12
2. 36
3. 48
4. 24

Correct Option - 4

Que. 82 Which of the following is the input component(s) to Materials Requirement Planning (MRP) system?

1. Bill of materials
2. Master Production Schedule
3. Inventory status file
4. All of the options

Correct Option - 4

Que. 83 Cyaniding is carried out at a temperature of _____.

1. 175°C
2. 950°C
3. 500°C
4. 1300°C

Correct Option - 2

Que. 84 In electrochemical grinding process, the material removal rate is inversely proportional to

1. Total supply current
2. Both density of workpiece material and supply of current
3. Density of workpiece material
4. Feed rate of electrode

Correct Option - 3

Que. 85 Why do particles in liquid water at 0°C have more energy as compared to particles in ice at the same temperature?

1. the particles in water absorb heat energy during the process of conversion from ice to water vapour
2. Because the particles in ice absorb heat energy during the process of conversion from ice to liquid water
3. the particles in water radiate heat energy during the process of conversion from ice to liquid water
4. the particles in water absorb heat energy during the process of conversion from ice to liquid water

Correct Option - 2

Que. 86 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"?

1. Parallelogram law of forces
2. Varignon's theorem
3. Transmissibility of forces
4. Lami's theorem

Correct Option - 4

Que. 87 Major purpose of most of the dams around the world is-

1. Drinking water supply
2. All of the options
3. Irrigation
4. Power generation

Correct Option - 2

Que. 88 Which of the following varnishes are prepared by dissolving hardest gums like copal in drying oil and volatile solvents?

1. Water varnish
2. Spirit varnish
3. Oil varnish
4. Turpentine varnish

Correct Option - 3

Que. 89 The ability of a material to resist deformation or deflection under stress is known as-

1. Toughness
2. Mechanical strength
3. Ductility
4. Stiffness

Correct Option - 4

Que. 90 _____ is a process for placing a thin phosphate coating on steel.

1. Parkerizing
2. Sheradizing
3. Galvanization
4. Anodizing

Correct Option - 1

Que. 91 The distance between the forces acting in the couple is

1. A finite variable distance
2. Infinity
3. Always a fixed distance
4. Zero

Correct Option - 1

Que. 92 Fishbone diagram is also known as _____.

1. Cause-and-effect diagram
2. Stratification
3. Pareto chart
4. Histogram
5. Balance chart

Correct Option - 1

Que. 93 The working cycle of two stroke engine is completed in _____ revolutions of crank shaft.

1. Two
2. Four
3. Three
4. One

Correct Option - 4

Que. 94 Ramsar convention is related to which of the following?

1. Forests
2. Wetlands
3. Animal Protection
4. Ozone Depletion

Correct Option - 2

Que. 95 Steel containing less than 0.15% carbon content is known as-

1. Medium carbon steel
2. Stainless steel
3. Dead mild steel
4. High carbon steel

Correct Option - 3

Que. 96 Which of the following is NOT an angular measuring instrument?

1. Sine bar
2. Bevel Protractor
3. Micrometer
4. Autocollimator

Correct Option - 3

Que. 97 The effective length 'L' of a column hinged at both ends as compared to its actual length 'l' is-

1. $L = l/2$
2. $L = l$
3. $L = 2l$
4. $L = 2l^2$

Correct Option - 2

Que. 98 What is the maximum font size you can apply for any character in MS Word 2007?

1. 163
2. 1638
3. 16038
4. None of the above

Correct Option - 2

Que. 99 If 1 kg mixture of steam contains 0.8 kg of dry vapor and 0.2 kg of moisture, then the dryness fraction of the steam is

1. 0.8
2. 0.6
3. 0.2
4. 0.5

Correct Option - 1

Que. 100 Which of the following is an example of flow production?

1. Textiles
2. Bridge and dam construction
3. Paint shop
4. Gas and oil

Correct Option - 4

Que. 101 Which of the following Japanese terms in 5S methodology represents the meaning of shine?

1. Seiri
2. Shitsuke
3. Seiso
4. Seiton

Correct Option - 3

Que. 102 Meander drive is a _____ shaft mechanism.

1. Four
2. One
3. Three
4. Two

Correct Option - 3

Que. 103 Which of the following elements has the maximum atomic radius?

1. P
2. Cl
3. Na
4. S

Correct Option - 3

Que. 104 The horizontal component of tensile force in a wire that makes 60° with horizontal and is carrying a force of 20 kN is

1. 10 kN

2. 18 kN
3. 30 kN
4. 25 kN

Correct Option - 1

Que. 105 Sigma comparator is a type of _____ comparator.

1. Electrical
2. Electronic
3. Mechanical
4. Optical

Correct Option - 3

Que. 106 Which theory of failure will you use for aluminium components under steady loading?

1. Maximum principal stress theory
2. Maximum shear stress theory
3. Maximum strain energy theory
4. Maximum principal strain theory

Correct Option - 2

Que. 107 To what degree are the edges of optical flats bevelled?

1. 45°
2. 90°
3. 60°
4. 30°

Correct Option - 1

Que. 108 Which of the following is an extensive property?

1. Melting point
2. Volume
3. Boiling point
4. Density

Correct Option - 2

Que. 109 The ability of a material to absorb energy in the elastic region is called-

1. Ductility
2. Resilience
3. Toughness
4. Hardness

Correct Option - 2

Que. 110 Which of the following is a disadvantage of most of the renewable energy sources?

1. Unreliable supply
2. High waste disposal cost
3. Highly polluting

4. High running cost

Correct Option - 1

Que. 111 The moment of inertia of a solid cylinder of mass 'm', radius 'R' and length 'l' about the longitudinal axis or polar axis is-

1. $mR^2/2$
2. $mR^2/4$
3. $mR^2/8$
4. $mR^2/6$

Correct Option - 1

Que. 112 The term 'grating' in metrology means that

1. Rulings are more closely spaced, producing a periodic pattern without blank gaps
2. Rulings follow a logarithmic scale
3. Rulings need not have any pattern
4. Rulings are spaced relatively far apart, requiring some type of interpolating device to make accurate settings

Correct Option - 1

Que. 113 Which movie won the Best Film award in 63rd Filmfare Awards?

1. Tumhari Sulu
2. Secret Superstar
3. Trapped
4. Hindi Medium

Correct Option - 4

Que. 114 The velocity with which the water approaches a notch is called

1. Velocity of whirl
2. Velocity of approach
3. Velocity of flow
4. Shear velocity

Correct Option - 2

Que. 115 How do the hard disks record information?

1. Propagation
2. Gravitation
3. Magnetisation
4. Centrifugation

Correct Option - 3

Que. 116 In machine lapping, for hard materials, pressure up to _____ is applied.

1. 0.5 N/mm^2
2. 1 N/mm^2

3. 0.05 N/mm^2
4. 0.02 N/mm^2

Correct Option - 1

Que. 117 Which of the following is an example of diffuse reflection?

1. Both reflection on mirror and still water
2. Reflection on mirrors
3. Reflection on roadway
4. Reflection on still water

Correct Option - 3

Que. 118 Pinch effect in welding is the result of

1. Surface tension of the molten metal
2. Electromagnetic forces
3. Expansion of gases in the arc
4. Shielding gases

Correct Option - 2

Que. 119 Pallet is an example for which operating principle of material handling plan?

1. Flow principle
2. Gravity principle
3. Space utilization principle
4. Unit load principle

Correct Option - 4

Que. 120 Communication between a computer and a keyboard involves _____ transmission.

1. Automatic
2. Half-duplex
3. Full-duplex
4. Simplex
5. Transitive

Correct Option - 4

Que. 121 The unit of moment of inertia of mass is-

1. m^2/kg
2. kg/m
3. kg-m^2
4. kg/m^2

Correct Option - 3

Que. 122 Who among the following releases the book 'Mann Ki Baat - A Social Revolution on Radio'?

1. Arun Jaitley
2. Piyush Goyal

3. Amit Shah
4. Sushma Swaraj

Correct Option - 1

Que. 123 Gantt chart is a type of chart which illustrates the-

1. Assignable causes of variation in a process
2. Inventory status and materials requirement
3. Project schedule
4. Common causes of variation in a process

Correct Option - 3

Que. 124 'If ' θ ' is angle of projection and ' u ' is velocity of projection for a projectile, then its horizontal range is given by-

1. $R = (u^2 \sin 2\theta) / g$
2. $R = (u^2 \cos \theta) / g$
3. $R = (u^2 \cos 2\theta) / g$
4. $R = (u^2 \sin \theta) / g$

Correct Option - 1

Que. 125 The maximum heat in resistance welding is at the-

1. Tip of the positive electrode
2. Interface between the two plates being joined
3. Tip of the negative electrode
4. Top surface of the plate at the time of electric contact with the electrode

Correct Option - 2

Que. 126 Which part of the solar cooker is responsible for the greenhouse effect?

1. Coating with black colour inside the box
2. Mirror
3. Glass sheet
4. Outer cover of the solar cooker

Correct Option - 3

Que. 127 The lower critical point for all steels is

1. 723°C
2. 913°C
3. 600°C
4. 800°C

Correct Option - 1

Que. 128 Which of the following is the most common substrate material for hot-dip metallic coating?

1. Steel
2. Aluminium
3. Zinc

4. Terene

Correct Option - 1

Que. 129 What is the value of the acceleration due to gravity (g) of Earth?

1. 3.8 m s^{-2}
2. 5.4 m s^{-2}
3. 6.8 m s^{-2}
4. 9.8 m s^{-2}

Correct Option - 4

Que. 130 Otto cycle is a constant _____ cycle.

1. Temperature
2. Entropy
3. Pressure
4. Volume

Correct Option - 4

Que. 131 In an air standard Otto cycle, the compression ratio is 7. Find the cycle efficiency

1. 54%
2. 38%
3. 71%
4. 80%

Correct Option - 1

Que. 132 Limiting force of friction is the

1. Ratio of limiting friction and normal reaction
2. Friction force acting when the body is just about to move
3. Tangent of angle between normal reaction and the resultant of normal reaction and limiting friction
4. Friction force acting when the body is in motion

Correct Option - 2

Que. 133 Which computer application scans texts and converts into readable form in computer?

1. Optical Scanner Reader
2. Optical Character Recognition
3. Optical Marker Recognition
4. Optical Character Evaluator

Correct Option - 2

Que. 134 In BCD code, maximum possible characters set size is-

1. Character set of 94
2. Character set of 84
3. Character set of 64
4. Character set of 104

Correct Option - 3

Que. 135 A stream line and an equipotential line in a two dimensional inviscid flow field-

1. Are perpendicular to each other
2. Intersect at an acute angle
3. Are parallel to each other
4. Are identical

Correct Option - 1

Que. 136 The Moment of Inertia of a circular area of diameter 'd' about its diameter axis is-

1. $\pi d^2/64$
2. $\pi d^3/36$
3. $\pi d^4/64$
4. $\pi d^2/36$

Correct Option - 3

Que. 137 A radius gauge is also known as-

1. Snap gauge
2. Feeler gauge
3. Fillet gauge
4. Slip gauge

Correct Option - 3

Que. 138 Which of the following is a junction of side and end cutting edge in single point cutting tool?

1. Base
2. Flank
3. Heel
4. Nose

Correct Option - 4

Que. 139 Water decomposes in presence of electricity into H and O , this process is called

1. Photochemical decomposition
2. Electrolysis
3. Thermal decomposition
4. Displacement Reaction

Correct Option - 2

Que. 140 The malleability is the property of a material by virtue of which a material-

1. Can be rolled or hammered into thin sheets
2. Regains its shape and size after the removal of external forces
3. Retains the deformation produced under load permanently
4. Can be drawn into wires with the application of a tensile force

Correct Option - 1

Que. 141 Shear thickening fluid is also known as-

1. Pseudoplastic
2. Dilatant
3. Thixotropic
4. Rheopectic

Correct Option - 2

Que. 142 The process of draining steam for heating the feed-water is known as

1. Bleeding
2. Governing
3. Cooling
4. Reheating of steam

Correct Option - 1

Que. 143 A single unit which is composed of small group of bits is known as-

1. Bug
2. Bit
3. Byte
4. Flag

Correct Option - 3

Que. 144 Funds belonging to the Government of India are kept in-

1. Public Account of India
2. Consolidated fund of India
3. All of the options
4. Contingency Fund of India

Correct Option - 3

Que. 145 Where is India's the first oceanarium being set up?

1. Vishakhapatnam
2. Mumbai
3. Kochi
4. Goa

Correct Option - 3

Que. 146 Johannsen Gauges are otherwise known as-

1. Radius gauges
2. Snap gauges
3. Slip gauges
4. Feeler gauges

Correct Option - 3

Que. 147 What is the magnitude of the maximum disturbance in the medium on either side of the mean value called?

1. Oscillation
2. Amplitude
3. Frequency
4. Wavelength

Correct Option - 2

Que. 148 The square root of the ratio of the inertia force due to flow to the elastic force of fluid is known as-

1. Mach number
2. Strouhal number
3. Froude number
4. Reynolds number

Correct Option - 1

Que. 149 Which of the following phase is obtained as the end product, after complete heat treatment cycle in austempering process?

1. Bainite
2. Martensite
3. Austenite
4. Pearlite

Correct Option - 1

Que. 150 The complete resistance spot weld cycle has been divided into ____ parts.

1. Four
2. Five
3. Three
4. Two

Correct Option - 1