Question 1: The tool used for marking and testing of angles 90°
   A: Try-square
   B: Mitre square
   C: Bevel square
   D: Straight edge
   Correct Answer: Option A

Question 2: Why rotatable bevels are used in dial indicator
   A: The work of machine setting
   B: Acts as an offset attachment
   C: Prevent shocks
   D: For making final zero setting
   Correct Answer: Option D

Question 3: The connection link used to make a connection between sling and load to be lifted is
   A: Pulley
   B: Shackle
   C: Hoist
   D: Derricks
   Correct Answer: Option B

Question 4: Rivet used for structural application is
   A: Pan head
   B: Snap head
   C: Mush room head
   D: Counter sunk head
   Correct Answer: Option B

Question 5: The arc used in Electric Arc welding is
   A: Low voltage high current
   B: High voltage high current
   C: Low voltage low current
   D: High voltage low current
   Correct Answer: Option A

Question 6: The flux used in brazing
   A: Zinc chloride
   B: Borax
   C: Ammonium chloride
   D: Alcohol
   Correct Answer: Option B

Question 7: How many types of foundations are there based on depth?
   A: 3
   B: 4
   C: 5
   D: 2
   Correct Answer: Option D

Question 8: Size of a wire rope specified by its.
   A: Nominal diameter
   B: Number of strands
   C: Number of wire per strand
   D: Length of wire
   Correct Answer: Option A

Question 9: A hacksaw blade specified by its.
A:-Length
B:-Material
C:-Width
D:-Number of teeth
Correct Answer:- Option-A

Question10:-Which of the following is a solid lubricant?
A:-Copper
B:-Molybdenum
C:-Graphite
D:-Oil
Correct Answer:- Option-C

Question11:-While chipping the slag or grinding which is used to protect eyes.
A:-Dark glass
B:-Sun glass
C:-Mask
D:-Goggles
Correct Answer:- Option-D

Question12:-In which of the following drives there is no slip.
A:-Open belt drive
B:-Crossed belt drive
C:-Rope drive
D:-Chain drive
Correct Answer:- Option-D

Question13:-The point angle of centre punch is.
A:-30°
B:-45°
C:-90°
D:-120°
Correct Answer:- Option-C

Question14:-The welding process that uses non-consumable electrode is
A:-TIG welding
B:-MIG welding
C:-Manual Arc welding
D:-Submerged Arc welding
Correct Answer:- Option-A

Question15:-Washer is used to
A:-Fill up the axial gap
B:-Provide bearing area
C:-Provide cushioning effect
D:-Absorb shocks and vibrations
Correct Answer:- Option-B

Question16:-A flange coupling is used to connect two shafts
A:-Perfectly aligned
B:-Not in exact alignment
C:-Lateral misalignment
D:-Axes intersect at a small angle
Correct Answer:- Option-A

Question17:-What does COP stand for?
A:-Car Operating Pannel
B:-Clean Oil Pits
C:-Car Outside pannel
D:-Clean Outside Parts
Correct Answer:- Option-A

Question18:-What is the purpose of counter weight?
A:-Balance the weight of rope
B:-Balance the weight of car
C:-Control the door of the car
D:-Balance the weight of cables
Correct Answer:- Option-B
Question 19: The device designed to stop a descending car or counter weight beyond its normal limit.
   A: Returning cam
   B: Pit switch
   C: Buffer
   D: Header assembly
   Correct Answer: Option C

Question 20: The elevator car is suspended on the main rope by means of a frame called.
   A: Sling
   B: Buffer
   C: Machine unit
   D: Car body
   Correct Answer: Option A

Question 21: A device which acts as stopping mechanism when the elevator runs beyond its rated speed.
   A: Limit switch
   B: Over speed governor
   C: Hydraulic ram
   D: Traction sheave
   Correct Answer: Option B

Question 22: One Micrometer is equal to.
   A: 0.1 mm
   B: 0.01 mm
   C: 0.001 mm
   D: 0.0001 mm
   Correct Answer: Option C

Question 23: If the belt of an electric motor is broken, it needs the following type of maintenance.
   A: Corrective
   B: Scheduled
   C: Preventive
   D: Timely
   Correct Answer: Option A

Question 24: Type of maintenance is done before failure.
   A: Preventive
   B: Running
   C: Break down
   D: Scheduled
   Correct Answer: Option A

Question 25: The device which connects the elevator car and landing doors without backlash.
   A: Door track
   B: Door coupler
   C: Door contact
   D: Door motor
   Correct Answer: Option B

Question 26: It is used to know the elevator car position.
   A: Landing push button
   B: Floor position indicator
   C: Door contact
   D: Door sill
   Correct Answer: Option B

Question 27: Which of the following is not a safety device on an elevator?
   A: Door lock
   B: Over speed governor
   C: Call button
   D: Limit switch
   Correct Answer: Option C

Question 28: Compensating ropes are generally required on elevators when the travel is.
   A: 5 M
   B: 10 M
   C: 20 M
   D: 30 M or greater
Correct Answer: Option-D

Question29: A cylindrical rod with both ends threaded is known as.
A: Bolt
B: Tap bolt
C: Stud
D: Set-screw
Correct Answer: Option-C

Question30: Sliding part between elevator guide rail and car.
A: Thimble rod
B: Guide shoe
C: Bulldog grip
D: Safety edge
Correct Answer: Option-B

Question31: The elevator which is used to transport goods.
A: Passenger elevator
B: Service elevator
C: Freight elevator
D: Capsule elevator
Correct Answer: Option-C

Question32: A standard metric thread having 3 mm pitch on 40 mm diameter designated as.
A: 40 x 3 m
B: M40 x 3
C: 40 x 3
D: M 403
Correct Answer: Option-B

Question33: Maximum travel height of a roped holeless hydraulic elevator is
A: 6 m
B: 9 m
C: 12 m
D: 18 m
Correct Answer: Option-D

Question34: To unlock door interlock when the cabin comes at the floor level in a manually operated doors.
A: Returning cams
B: Limit cam
C: Toe guard
D: Lock roller
Correct Answer: Option-A

Question35: The portion of a building or structure used for discharge of passenger or goods into or from a lift car.
A: Lift door
B: Lift beam
C: Lift pit
D: Lift landing
Correct Answer: Option-D

Question36: On a triple thread screw, lead equals.
A: 1/3 of pitch
B: 2/3 of pitch
C: 2/3 of pitch
D: 3 times of pitch
Correct Answer: Option-D

Question37: In a ball bearing balls are subjected to.
A: Compressive stress
B: Shear stress
C: Fatigue
D: Tensile stress
Correct Answer: Option-C

Question38: Bronze is welded by
A: Neutral flame
B: Carburizing flame
C: Oxidizing flame
Question 39: The included angle of V-Belt is usually
A: 10° - 20°
B: 20° - 30°
C: 30° - 40°
D: 60° - 70°
Correct Answer: Option C

Question 40: Scaffolding method is used for travel up to.
A: 70 m
B: 60 m
C: 50 m
D: 40 m
Correct Answer: Option D

Question 41: A moving staircase which carries people between floors of building.
A: Lift
B: Escalator
C: Hoist
D: Derrick
Correct Answer: Option B

Question 42: Which of the following is a scalar quantity?
A: Force
B: Velocity
C: Acceleration
D: Speed
Correct Answer: Option D

Question 43: The side of an escalator extending above the step.
A: Comb plate
B: Lower landing
C: Balustrade
D: Upper landing
Correct Answer: Option C

Question 44: String cable is used to
A: Prevent lifting of doors
B: Connect two door panels
C: Fixing header to wall
D: Support travelling cable
Correct Answer: Option B

Question 45: Scribers are made of
A: Cast iron
B: Mild steel
C: High carbon steel
D: Brass
Correct Answer: Option C

Question 46: The part of the step where a passenger stands on escalator.
A: Step tread
B: Riser
C: Skirt
D: Truss
Correct Answer: Option A

Question 47: The point angle of the drill depends on the.
A: RPM of drill
B: Size of drill
C: Size of the machine
D: Material of work
Correct Answer: Option D

Question 48: File card is used for
A: Cleaning the work piece
B: Renew the file teeth
Cleaning the file teeth
Cleaning the chips
Correct Answer: Option C

Question 49: Mechanical device attached to the car frame or counter weight to stop and hold in the event of free fall
A: Retiring cam
B: Safety gear
C: Overhead pulley
D: Buffer
Correct Answer: Option B

Question 50: Which device is used to mount the pulley on shaft?
A: Key
B: Belt
C: Chain
D: Flange
Correct Answer: Option A

Question 51: In terms of energy bands, semiconductors can be defined as those material which at room temperature have
A: Partially filled conduction band
B: Partially filled valance band
C: A very narrow energy gap
D: All of the above
Correct Answer: Option D

Question 52: In an N type semiconductor there are
A: No minority carriers
B: Immobile negative ions
C: Immobile positive ions
D: Holes as majority carriers
Correct Answer: Option C

Question 53: A square wave oscillator is
A: Bistable multivibrator
B: An Astable multivibrator
C: A Monostable multivibrator
D: None of the above
Correct Answer: Option B

Question 54: In a transistor the reverse saturation current ICo
A: Doubles for every 10°C rise in temperature
B: Doubles for every 1°C rise in temperature
C: Increase linearly with temperature
D: Doubles for every 15°C rise in temperature
Correct Answer: Option A

Question 55: An SCR can be turned OFF by
A: Removing the gate voltage
B: Reducing the Anode to Cathode voltage
C: Reducing the Anode current below the holding current
D: All of the above
Correct Answer: Option C

Question 56: DIAC is a
A: One terminal device
B: Two terminal device
C: Three terminal device
D: Four terminal device
Correct Answer: Option B

Question 57: Which one of the following is not a characteristic of the UJT
A: Negative resistance
B: Intrinsic stand off ratio
C: Gate current
D: Peak point voltage
Correct Answer: Option C

Question 58: A TRIAC can be triggered
A: Only by the positive half cycle of the supply
B.: Only by the negative half cycle of the supply
C.: By positive & negative cycle of the supply
D.: None of the above
Correct Answer: Option-C

Question 59: The procedure used for controlling the speed of a 3 phase induction motor is
A.: Fixed voltage - variable frequency method
B.: Variable voltage - fixed frequency method
C.: Variable voltage - variable frequency method
D.: Fixed voltage - fixed frequency method
Correct Answer: Option-C

Question 60: The purpose of the synchronizing control in a CRO is to
A.: Focus the spot on screen
B.: Adjust the amplitude of the display
C.: Control the intensity of spot
D.: Lock the display of the signal
Correct Answer: Option-D

Question 61: Which is the necessary condition for generating sinusoidal voltage in a feedback type oscillator
A.: Total loop gain should be one
B.: Total phase shift should be 360° or 0°
C.: Either A or B
D.: Both A and B
Correct Answer: Option-D

Question 62: The largest number that can be represented by 'n' bits is
A.: $2^n - 1$
B.: $2^n$
C.: $2^n - 1$
D.: $2^{n+1}$
Correct Answer: Option-A

Question 63: The binary equivalent of the Hexadecimal number $(18)_{16}$ is
A.: 00010010b
B.: 00010011b
C.: 10000010b
D.: 00011000b
Correct Answer: Option-D

Question 64: The output of a logic gate is "1" when all its inputs are at logic "0", the gate is
A.: A NOR or an EX-OR gate
B.: A NAND or OR gate
C.: An AND or an EX-NOR gate
D.: None of above
Correct Answer: Option-D

Question 65: If a mod 9 counter is constructed using 4 flip flops the counter will skip
A.: 7 Counts
B.: 8 Counts
C.: 9 Counts
D.: none of the above
Correct Answer: Option-A

Question 66: The two input OR gate is
A.: 7400
B.: 7483
C.: 7432
D.: 7423
Correct Answer: Option-C

Question 67: Which of the following statement about RAM is not correct
A.: It stands for Random Access Memory
B.: It is R/W memory
C.: It is volatile memory
D.: The data's are entered or stored in the chip during manufacturing
Correct Answer: Option-D

Question 68: The PIV of diode in a half wave rectifier circuit with shunt capacitor filter is
A: -2Vm
B: -Vm
C: -Vm/2
D: -3Vm
Correct Answer: Option-A

Question 69: The number of comparators required in a 3 bit comparator type ADC is
A: 6
B: 7
C: 3
D: 8
Correct Answer: Option-B

Question 70: The rotor of a stepper motor has no
A: Windings
B: Commutator
C: Brushes
D: All of these
Correct Answer: Option-D

Question 71: Which method of speed control cannot be used in a permanent magnet dc motor
A: Armature voltage variation
B: Armature resistance control
C: Varying the field current
D: All of the above
Correct Answer: Option-C

Question 72: Which test on a transformer provides information about regulation, efficiency and heading under load conditions.
A: Open circuit test
B: Short circuit test
C: Hopkinsons test
D: Back to back test
Correct Answer: Option-D

Question 73: In a transformer the resistance between primary and secondary must be
A: Zero
B: 1 kΩ
C: 100 kΩ
D: Infinite
Correct Answer: Option-D

Question 74: V curves for a synchronous motor represent relation between
A: Field current and speed
B: Field current and power factor
C: Armature current & field current
D: Power factor and speed
Correct Answer: Option-C

Question 75: An induction motor is expected to take largest starting current under which method of starting
A: Direct online starting
B: Starter-rotor starting
C: Star-delta starting
D: Auto-transformer starting
Correct Answer: Option-A

Question 76: The starting capacitor of a single phase motor is
A: Electrolytic capacitor
B: Ceramic capacitor
C: Paper capacitor
D: None of these
Correct Answer: Option-A

Question 77: An elevator drive is required to operate in
A: One quadrant only
B: Two quadrant only
C: Three quadrants only
D: Four quadrants only
An ideal insulating material should have low
A:- insulation resistance
B:- dielectric strength
C:- dielectric loss angle
D:- mechanical strength
Correct Answer:- Option-C

Two wire A and B of the same material and length l and 2l have radius r and 2r respectively, the ratio of their specific resistance will be
A:- 1:1
B:- 1:2
C:- 1:4
D:- 1:8
Correct Answer:- Option-A

Across the surface of a charged conductor, the electric
A:- the field is continuous
B:- potential is discontinuous
C:- field is discontinuous
D:- none of the above
Correct Answer:- Option-C

In magnetic circuits, an air gap is usually inserted so as to
A:- increase in mmf
B:- prevent saturation
C:- increase in flux
D:- the increase in inductance
Correct Answer:- Option-B

An Electromagnetic field is radiated from a
A:- stationary point charge
B:- a capacitor with the DC voltage
C:- a conductor carrying a DC current
D:- an oscillating dipole
Correct Answer:- Option-D

In a series RLC circuit, the maximum voltage across the capacitor occurs at a frequency
A:- double the resonant frequency
B:- below the resonant frequency
C:- 1.414 times the resonant frequency
D:- equal to resonant frequency
Correct Answer:- Option-B

Wave winding is employed in a DC Machine of
A:- high current and low voltage rating
B:- low current and high voltage rating
C:- high current and high voltage rating
D:- low current and voltage rating
Correct Answer:- Option-B

The flux in transformer core
A:- increases with load
B:- decreases with load
C:- remains constant irrespective of Load
D:- none of the above
Correct Answer:- Option-C

In cylindrical Rotor .............. portion of the rotor is wound
A:- one third
B:- two third
C:- one half
D:- whole
Correct Answer:- Option-B

Protection by fuses is generally not used beyond
A:- 200 A
B:- 50 A
C:-25 A  
D:-10 A  
Correct Answer:- Option-A

Question88:-Aluminium conductor cables can be joined by
   A:-gas welding  
   B:-soldering  
   C:-compression  
   D:-thermite welding  
Correct Answer:- Option-C

Question89:-Minimum distance of underground cable from the foundation of the building should be
   A:-100 cm  
   B:-50 cm  
   C:-10 cm  
   D:-5 cm  
Correct Answer:- Option-C

Question90:-Resolution of an instrument is
   A:-the minimum quantity it can measure  
   B:-the maximum quantity that can measure  
   C:-the maximum non linearity  
   D:-ability to distinguish polarity  
Correct Answer:- Option-A

Question91:-The response of a galvanometer is independent of its
   A:-controlling torque  
   B:-number of turns  
   C:-circuit resistance  
   D:-none of these  
Correct Answer:- Option-C

Question92:-A dynamometer type wattmeter response to the
   A:-average value of active power  
   B:-average value of reactive power  
   C:-peak value of active power  
   D:-peak value of reactive power  
Correct Answer:- Option-A

Question93:-Permission for addition/alteration in the lift installation is granted in
   A:-Form F  
   B:-Form B  
   C:-Form D  
   D:-Form H  
Correct Answer:- Option-B

Question94:-The licence for existing lift/escalator is issued in?
   A:-Form F  
   B:-Form B  
   C:-Form D  
   D:-Form H  
Correct Answer:- Option-A

Question95:-Motor used for elevators is generally
   A:-synchronous motor  
   B:-induction motor  
   C:-capacitor start single phase motor  
   D:-any of the above  
Correct Answer:- Option-B

Question96:-A synchronous motor is found to be more economical when the load is above
   A:-1 kW  
   B:-10 kW  
   C:-20 kW  
   D:-100 kW  
Correct Answer:- Option-D

Question97:-According to Indian Electricity rules, extra high voltage implies voltage exceeding.
   A:-440 V
Question 98: The first type of variable speed drive ever used on lifts was the so-called
A: Two speed system
B: Ward-Leonard system
C: DC SCR
D: VVVF
Correct Answer: Option B

Question 99: What type of elevator is used for low rise buildings where speed is not the main consideration?
A: Gear-less traction elevator
B: Geared elevator
C: Hydraulic
D: Deck elevator
Correct Answer: Option C

Question 100: Which motors are invariably used in lift systems to achieve good starting torques and enable good speed control using variable voltage systems
A: Synchronous motor
B: Double cage rotor induction motors
C: DC series motor
D: DC compound motor
Correct Answer: Option B