

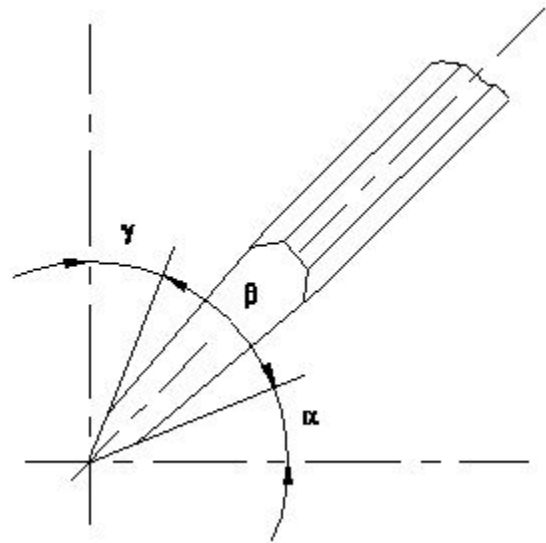
Safety and Trade tools

1). Which type of file is used to make the job closer to the finishing size?

- (A) Single cut file
- (B) Curved cut file
- (C) Second cut file
- (D) Double cut file

Correct Answer: C

2). Which angle is represented by the symbol “ γ ” on the cutting chisel shown in the figure?



- (A) Rake angle
- (B) Wedge angle
- (C) Cutting angle
- (D) Clearance angle

Correct Answer: A

3). How can you correct the digging of a hammer while striking?

- (A) Giving slight convexity on face
- (B) Giving slight convexity on cheek
- (C) Giving slight concavity on cheek
- (D) Giving slight concavity on face

Correct Answer: A

4). How should one avoid accidents in a workplace?

- (A) Doing work in ancient way
- (B) Doing work in one's own way
- (C) Not observing safety procedure
- (D) Observing safety rules in all aspects

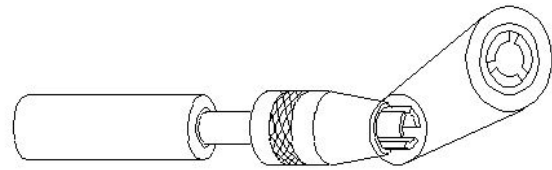
Correct Answer: D

5). How do you stop bleeding in an injured person?

- (A) Tie bandage over the wound
- (B) Apply ointment over the wound
- (C) Apply tincture over the wound
- (D) Apply pressure over the wound

Correct Answer: D

6). What is the name of the vice shown in the figure?



- (A) Pin vice
- (B) Pipe vice
- (C) Hand vice
- (D) Machine vice

Correct Answer: A

7). How do you use the fire extinguishers to stop fire?

- (A) Pull, Sweep, Aim, Squeeze
- (B) Pull, Aim, Squeeze, Sweep
- (C) Aim, Pull, Squeeze, Sweep
- (D) Aim, Squeeze, Pull, Sweep

Correct Answer: B

8). What is the bin colour code for waste paper segregation?

- (A) Red
- (B) Blue
- (C) Black
- (D) Green

Correct Answer: B

9). Which material is used to make bench vice?

- (A) Tool steel
- (B) High carbon steel
- (C) Medium carbon steel
- (D) Cast iron

Correct Answer: D

10). Which part of the bevel protractor comes in contact with the inclined surface while measuring?

- (A) Dial
- (B) Disc
- (C) Blade
- (D) Stock

Correct Answer: C

11). What is the advantage of waste disposal?

- (A) Uses lot of energy and resources
- (B) Increases adverse impact on environment
- (C) Ensures workshop is neat and tidy
- (D) Reduces economic efficiency

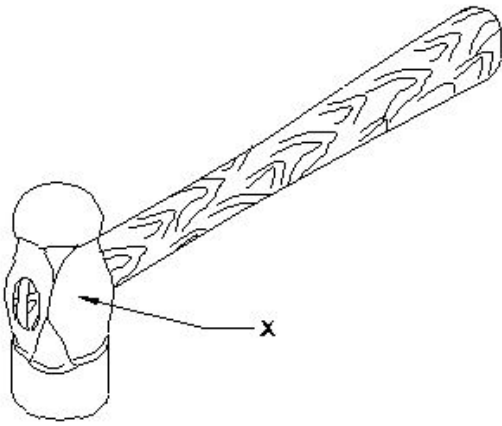
Correct Answer: C

12). Which vice is used to hold hollow cylindrical jobs?

- (A) Pin vice
- (B) Pipe vice
- (C) Hand vice
- (D) Bench vice

Correct Answer: B

13). What is the name of the part of a hammer marked as 'X' shown in the figure?



- (A) Face
- (B) Pein
- (C) Cheek
- (D) Eye hole

Correct Answer: C

14). Which hand tool is used to finish the sharpened divider point?

- (A) File
- (B) Grinder
- (C) Scraper
- (D) Oil stone

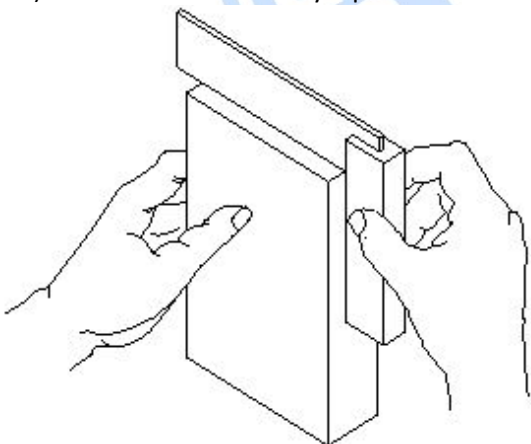
Correct Answer: D

15). Which effect occurs if the clearance angle of the chisel is low during chipping?

- (A) Chisel will slip
- (B) Cutting edge digs in
- (C) Cutting edge will break
- (D) Chisel will move freely

Correct Answer : A

16). What is the use of try square shown in the figure?



- (A) To check the flatness
- (B) To check the squareness
- (C) To mark lines at 90°
- (D) To set the workpiece at right angle

Correct Answer: B

17). Which file has parallel edges throughout the length?

- (A) Hand file
- (B) Bastard file
- (C) Rasp cut file
- (D) Single cut file

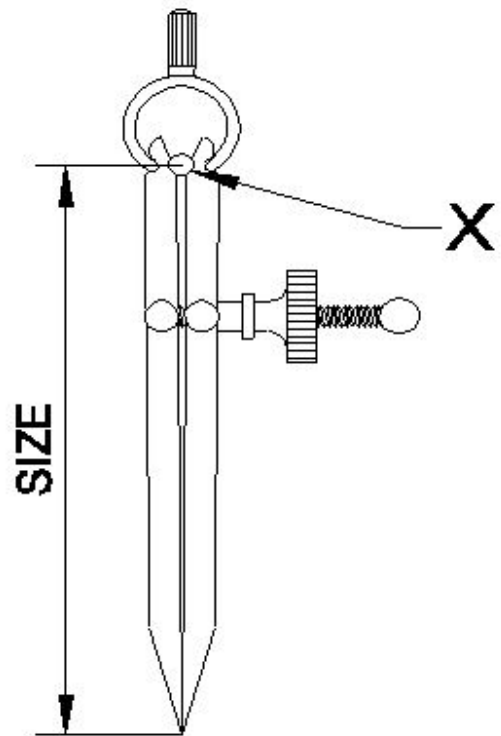
Correct Answer: A

18). Which class of fire is caused by fire wood, paper or cloth?

- (A) Class 'A' fire
- (B) Class 'B' fire
- (C) Class 'C' fire
- (D) Class 'D' fire

Correct Answer: A

19). What is the name of the part marked as 'X' shown in the figure?



- (A) Leg
- (B) Peg
- (C) Washer
- (D) Fulcrum

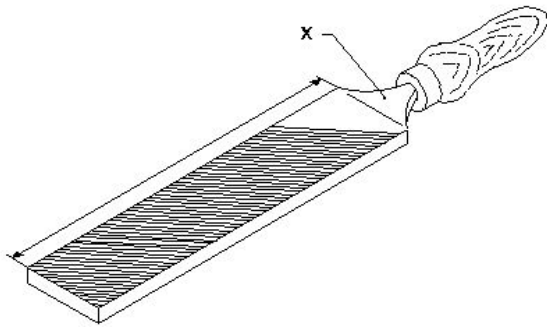
Correct Answer: D

20). What is the name of the angle between the axis of chisel and the job surface while chipping?

- (A) Rake angle
- (B) Point angle
- (C) Clearance angle
- (D) Angle of inclination

Correct Answer: D

21). What is the name of the part marked as "X" shown in the figure?



- (C) Outside caliper
 - (D) Spring joint caliper
- Correct Answer: A

- (A) Heel
- (B) Tang
- (C) Ferrule
- (D) File length

Correct Answer: B

22). What is the accuracy of Vernier bevel protractor?

- (A) 1°
- (B) 5°
- (C) $5'$
- (D) $5''$

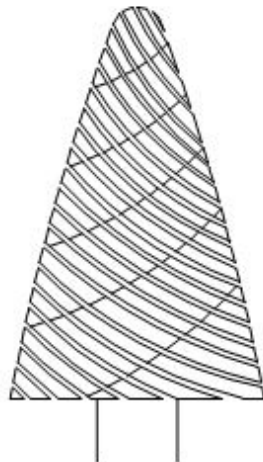
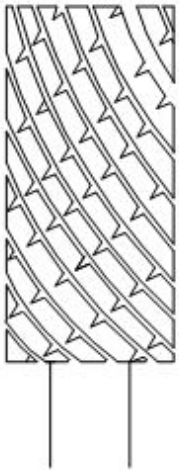
Correct Answer: C

23). What is the use of groove provided on the either side of a vee-block?

- (A) For appearance
- (B) For reducing the weight
- (C) To reduce bearing surface
- (D) Holding clamps

Correct Answer: D

24). What is the name of the file shown in the figure?



- (A) Rotary file
- (B) Tinkers file
- (C) Barrette file
- (D) Crossing file

Correct Answer: A

25). Which caliper has one leg with an adjustable divider point and the other leg bent?

- (A) Jenny caliper
- (B) Inside caliper

Marking media and Engineering metal

1). Which part of the universal surface gauge holds the scriber?

- (A) Snug
- (B) Guide pin
- (C) Rocker arm
- (D) Fine adjustment screw

Correct Answer: A

2). Which metal property permits no permanent distortion on before breaking?

- (A) Tenacity
- (B) Hardness
- (C) Brittleness
- (D) Toughness

Correct Answer: C

3). Which metal property can be drawn into the wire without any rupture?

- (A) Ductility
- (B) Tenacity
- (C) Elasticity
- (D) Malleability

Correct Answer: A

4). Which mechanical property of metal extends in all directions without rupturing during hammering?

- (A) Malleability
- (B) Ductility
- (C) Fusibility
- (D) Elasticity

Correct Answer: A

5). Which metal property can with stand shock or impact?

- (A) Tenacity
- (B) Hardness
- (C) Brittleness
- (D) Toughness

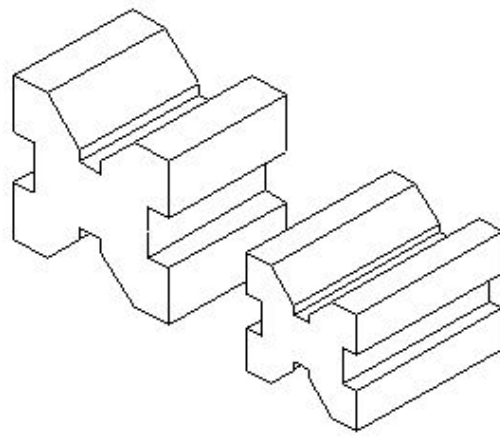
Correct Answer: D

6). What is the use of adjustable parallel blocks?

- (A) To set an angular job
- (B) To set the curved job
- (C) To hold the irregular shape of job
- (D) To adjust and set different heights

Correct Answer : D

7). Which type of "V" block is shown in the figure?



- (A) Single level single groove
- (B) Single level double groove
- (C) Double level single groove
- (D) Double level double groove

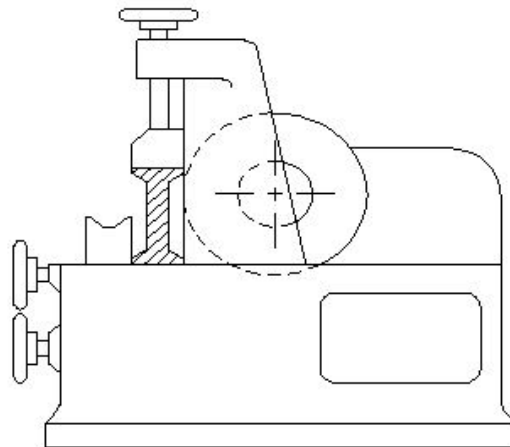
Correct Answer: C

8). Which mechanical property of metal has the ability to withstand wear and abrasion?

- (A) Toughness
- (B) Hardness
- (C) Brittleness
- (D) Malleability

Correct Answer: B

9). What is the name of the metal-cutting saws shown in the figure



- (A) Power saw
- (B) Horizontal band - saw
- (C) Circular saw
- (D) Contour saw

Correct Answer: C

10). Which material is used to manufacture Grade 'A' 'V' blocks?

- (A) Tool steel
- (B) Carbon steel
- (C) High quality steel
- (D) Closely grained cast iron

Correct Answer: C

11). Which part of a universal surface gauge is used to set scribe exactly at the required position?

- (A) Snug
- (B) Guide pin
- (C) Rocker arm
- (D) Fine adjustment screw

Correct Answer: D

12). Which material property returns to its original shape after the withdrawal of applied force?

- (A) Plasticity
- (B) Elasticity
- (C) Toughness
- (D) Hardness

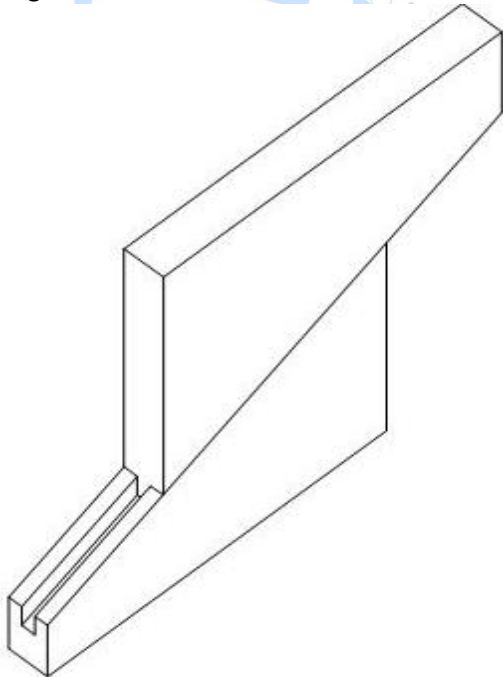
Correct Answer: B

13). Which marking media is applied in rough forgings and castings?

- (A) White wash
- (B) Prussian blue
- (C) Copper sulphate
- (D) Cellulose lacquer

Correct Answer: A

14). What is the name of the parallel block shown in the figure?



- (A) Solid parallel block
- (B) Tenon parallel block
- (C) Angular parallel block
- (D) Adjustable parallel block

Correct Answer: D

15). What is the specific gravity for aluminium?

- (A) 9 kg/cm³
- (B) 2.7 kg/cm³

(C) 2.6 kg/cm³

(D) 8.5 kg/cm³

Correct Answer: B

16). Why surface plates are made of up of stress-relieved, good quality cast iron?

- (A) To prevent corrosion
- (B) To prevent breaking
- (C) To prevent distortion
- (D) To prevent thermal expansion

Correct Answer: C

17). Why heavy ribs are provided at the bottom of the surface plate?

- (A) To provide rigidity
- (B) For appearance
- (C) To increase the weight
- (D) For dimensional accuracy

Correct Answer: A

18). Which metal cutting saw is used to cut large cross section area?

- (A) Power saw
- (B) Contour saw
- (C) Circular saw
- (D) Horizontal band saw

Correct Answer: C

19). What is the main advantage of adjustable parallel block?

- (A) To set different angle
- (B) To set different depth
- (C) To set different length
- (D) To set different height

Correct Answer: D

20). Which metal cutting saw is used for cutting different profiles?

- (A) Power saw
- (B) Circular saw
- (C) Contour band saw
- (D) Horizontal band saw

Correct Answer: C

21). Why slots are provided in the slotted angle plate?

- (A) For job clamping
- (B) For easy handling
- (C) For reducing the weight
- (D) For better appearance

Correct Answer: A

22). Which metal property is beneficial for melting?

- (A) Fusibility
- (B) Specific gravity
- (C) Conductivity
- (D) Structure

Correct Answer: A

23). What will be the effect if the metal reaches the melting temperature?

- (A) Change in specific gravity
- (B) Change in weight
- (C) Change in shape
- (D) Change in pressure

Correct Answer: C

24). Which metal property can resist the effect of tensile forces without any rupture?

- (A) Ductility
- (B) Tenacity
- (C) Elasticity
- (D) Malleability

Correct Answer: B

25). Why are ribs provided in the angle plate?

- (A) Provides flatness
- (B) Prevents distortion
- (C) Provides squareness
- (D) Supports the machined surface

Correct Answer: B



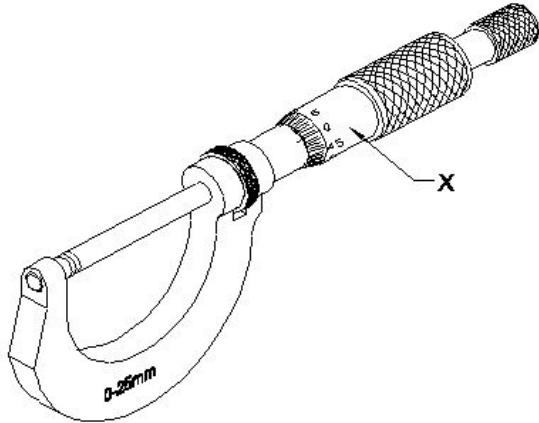
Precision instruments and Drilling process

1). What type of operation is carried out in a gang drilling machine?

- (A) Idle operation
- (B) Repeated operation of drilling
- (C) Continuous milling operation
- (D) Successive operation of drilling

Correct Answer: D

2). What is the name of the part marked as 'X' shown in the figure?



- (A) Spindle
- (B) Sleeve
- (C) Thimble
- (D) Spindle lock

Correct Answer: C

3). What is the spindle movement of one division of thimble with spindle thread of 0.5mm pitch?

- (A) 0.01 mm
- (B) 0.001 mm
- (C) 0.5 mm
- (D) 0.02 mm

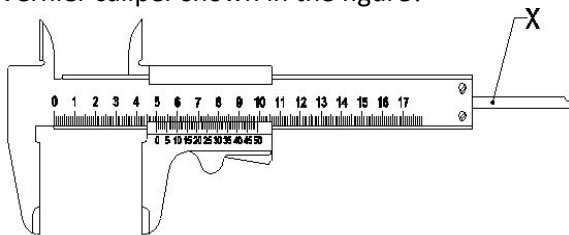
Correct Answer: A

4). Which is an integral part of the stock in vernier bevel protractor?

- (A) Disc
- (B) Dial
- (C) Blade
- (D) Main scale

Correct Answer: B

5). What is the name of the part marked as 'X' in Vernier caliper shown in the figure?



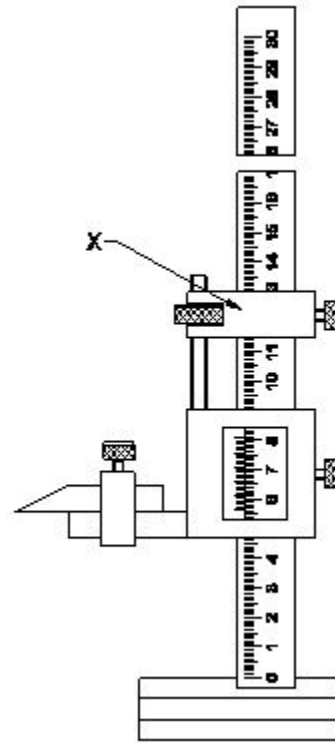
- (A) Beam
- (B) Fixed jaw

(C) Depth bar

(D) Thumb lever

Correct Answer: C

6). What is the name of the part marked as 'X' shown in the figure?



- (A) Beam
- (B) Main scale
- (C) Fine adjusting nut
- (D) Fine adjusting slide

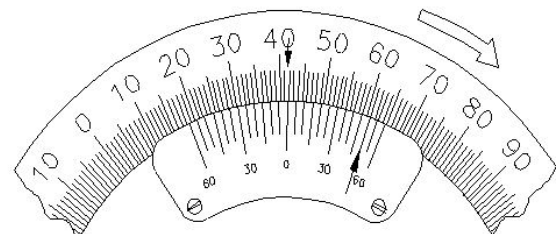
Correct Answer: D

7). What is the accuracy of a metric outside micrometer?

- (A) 0.01 mm
- (B) 0.001 mm
- (C) 0.02 mm
- (D) 0.002 mm

Correct Answer: A

8). What is the reading of the vernier bevel protractor shown in the figure?



- (A) 18° 50'
- (B) 41° 50'
- (C) 50° 50'

(D) $58^{\circ} 50'$

Correct Answer: B

9). In which situation the zero setting of a digital vernier caliper is necessary?

- (A) While removing the battery from caliper
- (B) While turning off the vernier caliper
- (C) When jaws touch together
- (D) When jaws are separated

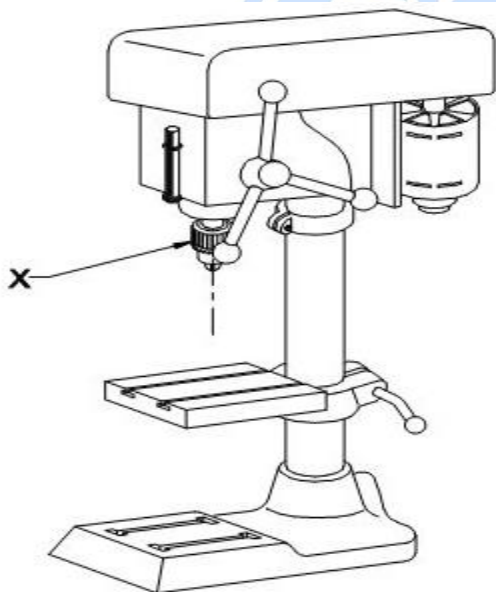
Correct Answer: C

10). Which part of the drilling machine is used to achieve set a different speed?

- (A) Flat pulley
- (B) Jockey pulley
- (C) Stepped pulley
- (D) Fast and loose pulley

Correct Answer: C

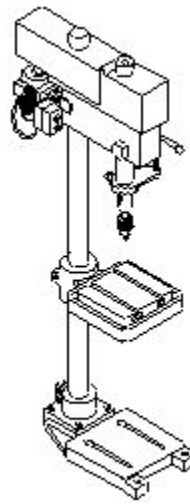
11). What is the name of the part marked as 'X' shown in the figure?



- (A) Drill chuck
- (B) Feed handle
- (C) Driving motor
- (D) Depth gauge and stop

Correct Answer: A

12). What is the name of the drilling machine shown in the figure?



- (A) Pillar drilling machine
- (B) Gang drilling machine
- (C) Bench drilling machine
- (D) Radial drilling machine

Correct Answer: A

13). Which part of micrometer ensures uniform pressure between the measuring surfaces?

- (A) Ratchet stop
- (B) Spindle
- (C) Barrel / sleeve
- (D) Thimble

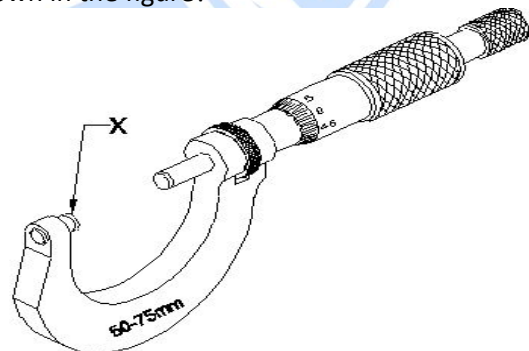
Correct Answer: A

14). How can a wide range of depth be measured using a depth micrometer?

- (A) Lengthy sleeve
- (B) Lengthy spindle
- (C) Adjustable base
- (D) Use of extension rods

Correct Answer: D

15). What is the name of the part marked as 'X' shown in the figure?



- (A) Anvil
- (B) Thimble
- (C) Spindle
- (D) Spindle lock

Correct Answer: A

16). What is the drill size for tapping M10X1.5 mm?

- (A) 9 mm
- (B) 8.8 mm
- (C) 8.5 mm
- (D) 9.2 mm

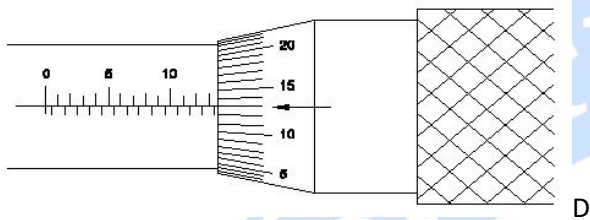
Correct Answer: C

17). Which material is used to make drill chuck?

- (A) High speed steel
- (B) Mild steel
- (C) Special alloy steel
- (D) High carbon steel

Correct Answer: C

18). What is the reading of the outside micrometer 50mm to 75mm shown in the figure?



- (A) 3.63 mm
- (B) 3.00 mm
- (C) 3.36 mm
- (D) 3.13 mm

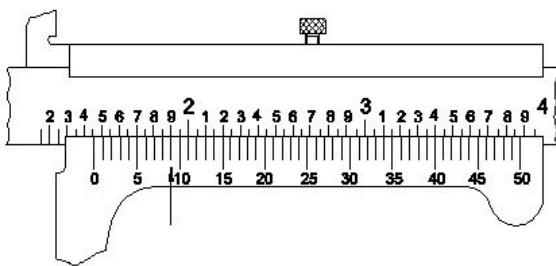
Correct Answer: A

19). Identify the type of drilling machine whose spindle head is moved towards or away from the column.

- (A) Pillar drilling machine
- (B) Gang drilling machine
- (C) Radial drilling machine
- (D) Sensitive bench drilling machine

Correct Answer: C

20). What is the reading of vernier caliper with inch graduations shown in the figure?



- (A) 1.068 "
- (B) 1.459 "
- (C) 1.418 "
- (D) 1.409 "

Correct Answer: B

Sheet Metal

1). Which type of tool is used to check the squareness of a surface?

- (A) Standard wire gauge
- (B) Steel rule
- (C) Radius gauge
- (D) Try square

Correct Answer: D

2). How can the problem of work hardness induced in cold rolled sheet be decreased?

- (A) By quenching process
- (B) By tempering process
- (C) By annealing process
- (D) By hardening process

Correct Answer: C

3). Which tool is used in sheet metal work to scribe a circle or arc with a large diameter?

- (A) Spring compass
- (B) Trammel
- (C) Wing compass
- (D) Ordinary compass

Correct Answer: B

4). How can the errors arising from parallax be avoided while using a steel rule?

- (A) Place eye on the job
- (B) Place eye on inclined
- (C) Place eye on vertically
- (D) Place eye on horizontally

Correct Answer: C

5). What is the purpose of a groove?

- (A) Releasing of seam
- (B) Compress the seam
- (C) Closing and locking of seam
- (D) Stress relieving during seam operation

Correct Answer: C

6). Which sheet metal is easier to joint using soldering?

- (A) Tinned plate
- (B) Lead sheet
- (C) Galvanized iron sheet
- (D) Stainless steel sheet

Correct Answer: A

7). How many basic categories of safety signs are available?

- (A) Two
- (B) Three
- (C) Four
- (D) Five

Correct Answer : C

8). Which part of the combination set is used for marking and measuring angles within an accuracy of 1°?

- (A) Protractor head
- (B) Centre head

(C) Rule

(D) Square head

Correct Answer: A

9). What is the use of stakes in sheet metal work?

- (A) Rest of work
- (B) Supporting piece
- (C) For sharpening
- (D) For folding shapes

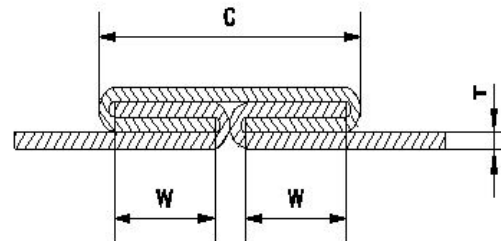
Correct Answer: B

10). Which hammer is suitable for riveting?

- (A) Plastic hammer
- (B) Ball pein hammer
- (C) Cross pein hammer
- (D) Straight pein hammer

Correct Answer: B

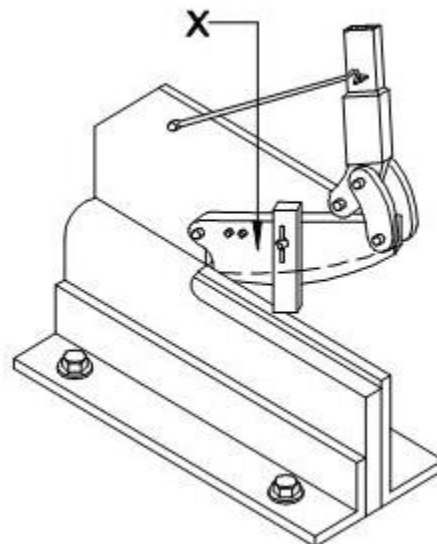
11). What is the name of the joint shown in the figure?



- (A) Grooved joint
- (B) Pane down joint
- (C) Knocked up joint
- (D) Double grooved seam/joint

Correct Answer: D

12). What is the name of the part marked as 'X' shown in the figure?



- (A) Clamp
- (B) Lever arm
- (C) Lower blade
- (D) Upper blade

Correct

Answer: D

13). What is the name of the warning sign shown in the figure?



- (A) Risk of electric shock
- (B) Risk of fire
- (C) Risk of explosion
- (D) Risk of ionizing radiation

Correct Answer: B

14). Which sheet metal has better appearance than other metals?

- (A) Black iron sheet
- (B) Aluminium sheet
- (C) Lead sheet
- (D) Copper sheet

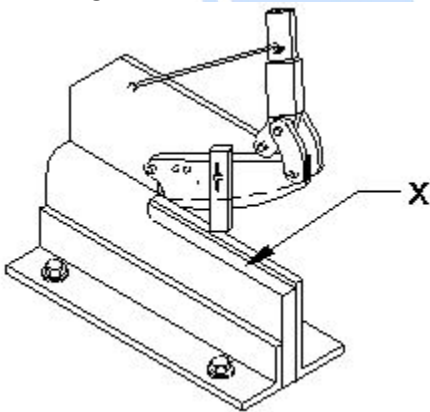
Correct Answer: D

15). What is the use of bent snips?

- (A) Groove cut
- (B) Zigzag cut
- (C) Straight cut
- (D) Circular cut

Correct Answer: D

16). What is the name of the part marked as 'X' shown in the figure?



- (A) Base plate
- (B) Lever arm
- (C) Lower blade
- (D) Upper blade

Correct Answer: C

17). Why burr is formed on the underside of the sheet metal while shearing?

- (A) No clearance
- (B) Hardened metal

(C) Increase in force

(D) Excessive clearance

Correct Answer: D

18). Which shearing machine is advantageous for single or continuous cutting action?

- (A) Guillotine shears
- (B) Squaring shear
- (C) Bench shear
- (D) Hand lever shear

Correct Answer: A

19). What is the use of wing compass in sheet metal works?

- (A) To draw angular lines
- (B) Stepping off distances
- (C) To draw parallel line
- (D) To draw perpendicular line

Correct Answer: B

20). Which process makes joints by fastening two edges of the sheet metal together?

- (A) Hemming
- (B) Seaming
- (C) Notching
- (D) Grooving

Correct Answer: B

21). Which safety apparel is worn while handling thin sheets?

- (A) Cap with sleeves
- (B) Apron
- (C) Hand gloves
- (D) Leg guards

Correct Answer: C

22). Which sheet metal is highly resistant to corrosion and abrasion?

- (A) Copper
- (B) Black iron
- (C) Aluminium
- (D) Galvanised iron

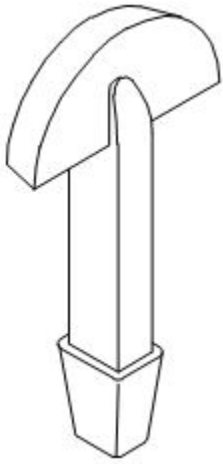
Correct Answer: C

23). Which shearing machine is used to cut sheet metal to a thickness of 3 mm?

- (A) Bench shear
- (B) Squaring shear
- (C) Hand lever shear
- (D) Guillotine shear

Correct Answer: C

24). What is the name of the supporting tool shown in the figure?



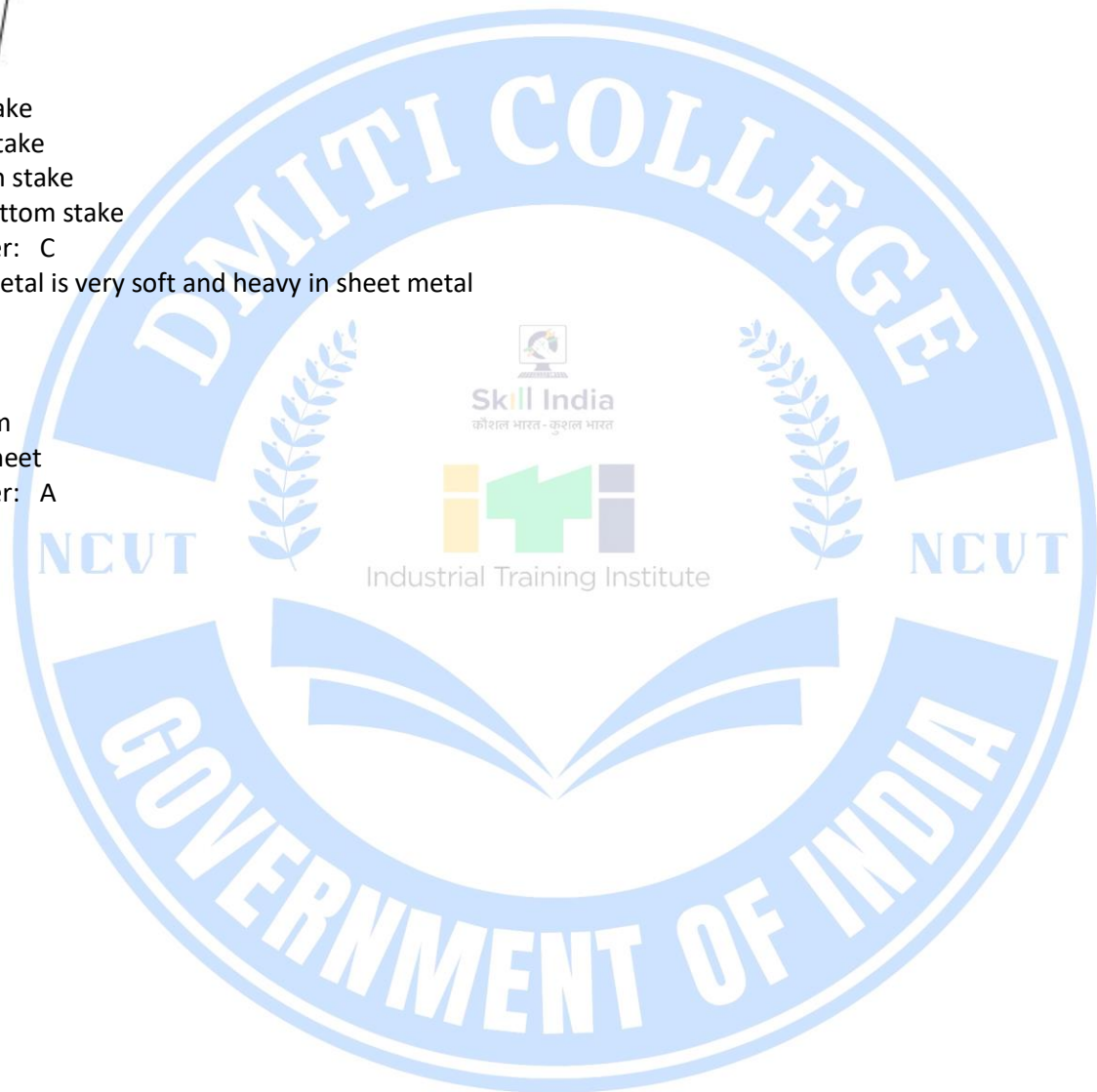
- (A) Funnel stake
- (B) Hatchet stake
- (C) Half moon stake
- (D) Round bottom stake

Correct Answer: C

25). Which metal is very soft and heavy in sheet metal work?

- (A) Lead
- (B) Black iron
- (C) Aluminium
- (D) Copper sheet

Correct Answer: A



Soldering and Rivets

1). What is the purpose of drift in riveting operation?

- (A) To form the rivet head
- (B) To make the holes to be riveted
- (C) To align the holes to be riveted
- (D) To prevent damage to the rivet head

Correct Answer: C

2). What will be the result if the handy soldering copper bit is used on the light gauges of metal?

- (A) Metal will be buckled
- (B) Metal will be sheared
- (C) Metal will be wrinkled
- (D) Metal will be spring back

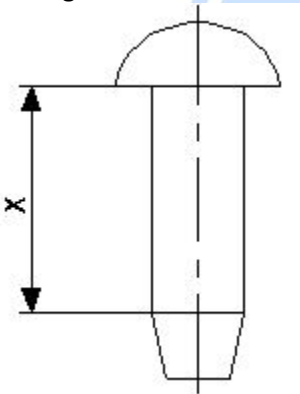
Correct Answer: A

3). Where is the sweat soldering process applied?

- (A) Reworking of ornaments
- (B) Electrical soldering work
- (C) Body repairing workshops
- (D) Joining of tool bits

Correct Answer: C

4). What is the name of the part marked as 'X' shown in the figure?



- (A) Tail
- (B) Body
- (C) Head
- (D) Diameter

Correct Answer: B

5). What is the melting temperature for soft soldering?

- (A) 500°C
- (B) Above 600°C
- (C) Below 420°C
- (D) 600°C

Correct Answer: C

6). What is the melting point range for silver alloys that is used as spelter in brazing?

- (A) 200°C - 400°C
- (B) 100°C - 200°C
- (C) 600°C - 850°C
- (D) 850°C - 1000°C

Correct Answer: C

7). Which type of material is used to make solder?

- (A) Welding rod
- (B) Synthetic element
- (C) Pure metal or alloy
- (D) Non metallic element

Correct Answer: C

8). Which rivet is used in heavy structural work?

- (A) Pan head rivet
- (B) Snap head rivet
- (C) Counter sunk rivet
- (D) Conical head rivet

Correct Answer: A

9). Which spelter is used for brazing of gold ornaments?

- (A) Silver solder
- (B) Copper solder
- (C) Tin lead solder
- (D) Lead solder

Correct Answer: A

10). Which powdered flux is used for soldering?

- (A) Resin
- (B) Zinc chloride
- (C) Hydrochloric acid
- (D) Ammonium chloride

Correct Answer: D

Soldering and Rivets

1). What is the effect of using matches to ignite the acetylene gas from the tip of the nozzle?

- (A) Does not catch fire
- (B) More smoke
- (C) Hand will get burned
- (D) Explodes suddenly

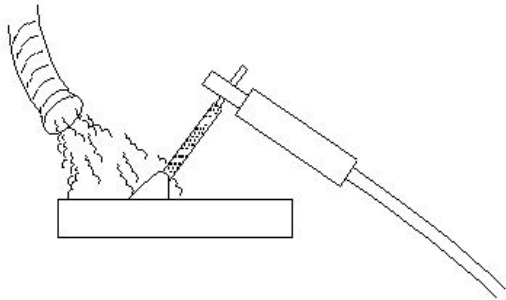
Correct Answer: C

2). Which arc welding machine provides better heat distribution in the electrode and the job?

- (A) Rectifier set
- (B) Motor generator set
- (C) Welding transformer
- (D) Engine generator set

Correct Answer: A

3). What is the name of the safety operation carried out in welding plant shown in the figure?



- (A) Compressor used to force out fuses
- (B) Cooling the surface to clear gases
- (C) Water forced to clean the surface
- (D) Exhaust duct capture fumes and gases

Correct Answer: D

4). Which defect is caused by the absorption of atmospheric Oxygen and Nitrogen by the molten metal in CO₂ welding?

- (A) Overlap and run out
- (B) Weak and porous weld
- (C) Complete penetration
- (D) Excess wide bead

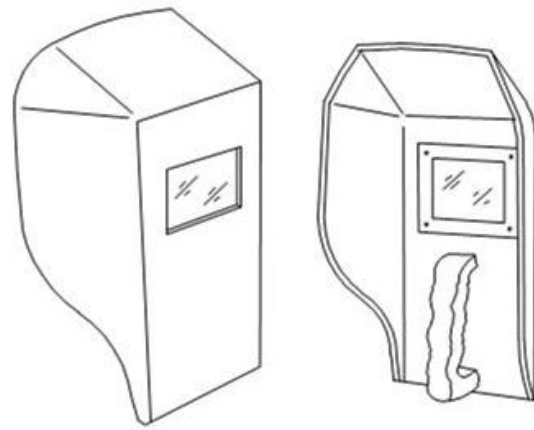
Correct Answer: B

5). What is the pressure maintained in acetylene cylinder?

- (A) 150 kg/cm²
- (B) 15 kg/cm²
- (C) 0.017 kg/cm²
- (D) 120 kg/cm²

Correct Answer: B

6). What is the name of the PPE shown in the figure?



- (A) Portable screen
- (B) Chipping goggles
- (C) Welding hand screen
- (D) Welding helmet screen

Correct Answer: C

7). Which welding machine is designed to supply both A.C and D.C current for welding ferrous and non-ferrous metals using all types of electrode?

- (A) Rectifier set
- (B) Transformer set
- (C) Motor generator set
- (D) Engine generator set

Correct Answer: A

8). Which term refers to the metal deposited during one pass of an electrode?

- (A) Backing run
- (B) Root run
- (C) Run
- (D) Sealing run

Correct Answer: C

9). Which prevents the high pressure oxygen from entering into the acetylene pipe line in gas welding?

- (A) Nozzle
- (B) Injector
- (C) Accumulator
- (D) Pressure valve

Correct Answer: B

10). Which welding hand tool is used to hold and manipulate the electrode?

- (A) Electrode holder
- (B) Earth clamp
- (C) Tongs
- (D) Spring loaded clamp

Correct Answer: A

11). What is the storing capacity of an oxygen cylinder?

- (A) 7 m³
- (B) 10 m³
- (C) 14 m³
- (D) 15 m³

Correct Answer: A

12). Which colour is painted on the acetylene gas cylinders?

- (A) Black
- (B) Green
- (C) Blue
- (D) Maroon

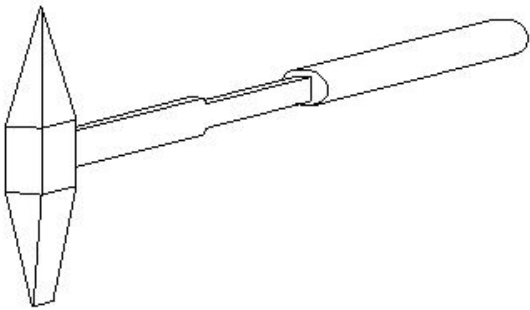
Correct Answer: D

13). Which hand tool is used to handle the hot metal in welding?

- (A) Snips
- (B) Tongs
- (C) Shovel
- (D) Poker

Correct Answer: B

14). What is the name of the hand tool shown in the figure?



- (A) Straight pein hammer
- (B) Ball-pein hammer
- (C) Chipping hammer
- (D) Cross-pein hammer

Correct Answer: C

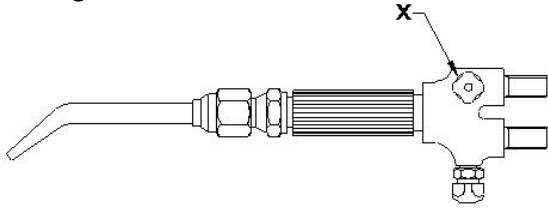
15). What is the function of AC welding transformer?

- (A) It changes to low voltage and high current ampere
- (B) It changes to high voltage and low current ampere
- (C) It changes to low voltage and low current ampere
- (D) It changes to high voltage and high current ampere

Correct Answer: A

Arc welding and Gas welding

1). What is the name of the part marked as 'X' shown in the figure?



- (A) Handle
- (B) Mixing chamber
- (C) Oxygen control valve
- (D) Acetylene control valve

Correct Answer: C

2). Which factor determines the current setting during welding?

- (A) Types of joint
- (B) Position of the weld
- (C) Length of an electrode
- (D) Diameter of an electrode

Correct Answer: D

3). What is the diameter of electrode for welding a plate having thickness over 1/2 "?

- (A) 1/8 "
- (B) 3/16 "
- (C) 1/4 "
- (D) 5/16 "

Correct Answer: D

4). Which equipment protects the body from the flying spark during gas cutting?

- (A) Leather cap
- (B) Leather apron
- (C) Leather shoes
- (D) Cutting goggles

Correct Answer: B

5). What is the ampere range for ϕ 1/16 " electrode in arc welding?

- (A) 40 - 125 amp
- (B) 75 - 185 amp
- (C) 20 - 40 amp
- (D) 105 - 250 amp

Correct Answer: C

6). What is the effect of directing the stream of high pressure pure oxygen on to the red hot ferrous metal in gas cutting process?

- (A) Oxidation and Liquefying the metal
- (B) Oxidation and Harden the metal
- (C) Oxidation and cut the metal
- (D) Oxidation and evaporating the metal

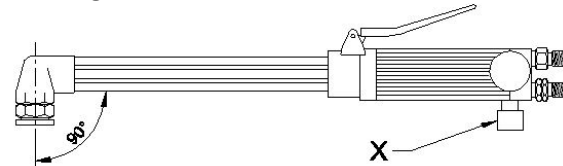
Correct Answer: C

7). Which metal is welded using medium coated mild steel electrode?

- (A) Mild steel
- (B) Medium carbon steel
- (C) Stainless steel
- (D) Copper

Correct Answer: A

8). What is the name of the part marked as 'x' shown in the figure?



- (A) Oxygen valve
- (B) Acetylene valve
- (C) Oxygen pipe
- (D) Oxygen level

Correct Answer: B

9). Why cylinder keys are not removed from the cylinder while welding?

- (A) To prevent gas leak
- (B) To adjust the gas supply
- (C) To open and close frequently
- (D) To close quickly in case of fire

Correct Answer: D

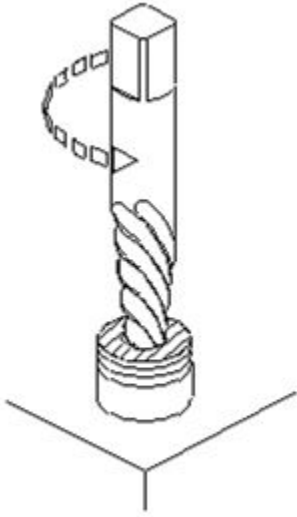
10). What is the size of cutting nozzle for cutting mild steel plate having thickness of 3 - 6 mm?

- (A) 0.8 mm
- (B) 1.2 mm
- (C) 1.6 mm
- (D) 2.0 mm

Correct Answer: A

Electrodes and Gas cutting

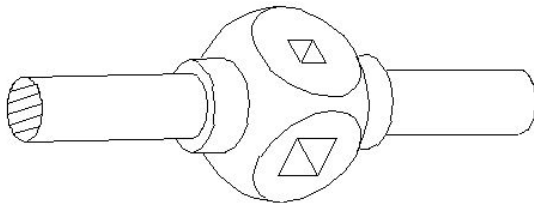
1). Which method of removing broken stud is shown in the figure?



- (A) Ezy-out
- (B) Prick punch
- (C) Making drill hole
- (D) Using square taper punch

Correct Answer: A

2). What is the name of the tap wrench shown in the figure?



- (A) Box type tap wrench
- (B) Solid type tap wrench
- (C) 'T' Handle tap wrench
- (D) Adjustable tap wrench

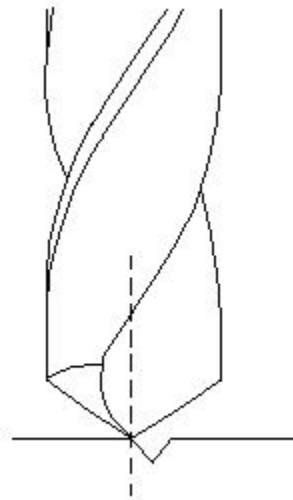
Correct Answer: B

3). Which angle is determined by the helix angle in the drill bit?

- (A) Point angle
- (B) Rake angle
- (C) Chisel angle
- (D) Clearance angle

Correct Answer: B

4). Which drilling defect is shown in the figure?



- (A) Unequal lip length
- (B) Unequal point thinning
- (C) Drill point not in the centre
- (D) Unequal flow of chips

Correct Answer: C

5). How the damaged threads are repaired?

- (A) By using die nut
- (B) By using button die
- (C) By using half die
- (D) By using circular split die

Correct Answer: A

6). Which letter specifies the largest diameter of the letter drill?

- (A) A
- (B) M
- (C) Z
- (D) O

Correct Answer: C

7). What is the purpose of clearance angle in twist drill?

- (A) To prevent rough holes
- (B) To prevent oversized holes
- (C) To prevent unequal angle of cutting edges
- (D) To prevent drill friction behind the cutting edges

Correct Answer: D

8). Calculate the RPM for a HSS drill, diameter is 24 mm and the cutting speed is 30 m/min.

- (A) 253 RPM
- (B) 423 RPM
- (C) 538 RPM
- (D) 398 RPM

Correct Answer: D

9). What is the effect, if the clearance angle of drill is more than the recommended?

- (A) Larger hole size
- (B) Rough surface finish
- (C) Weakened cutting edge

(D) Chattering of drill

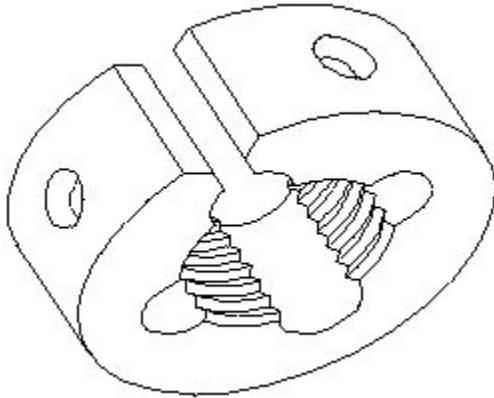
Correct Answer: C

10). Which decides the point angle of the drill?

- (A) Drill material
- (B) Job material
- (C) Cutting speed
- (D) Size of the drill

Correct Answer: B

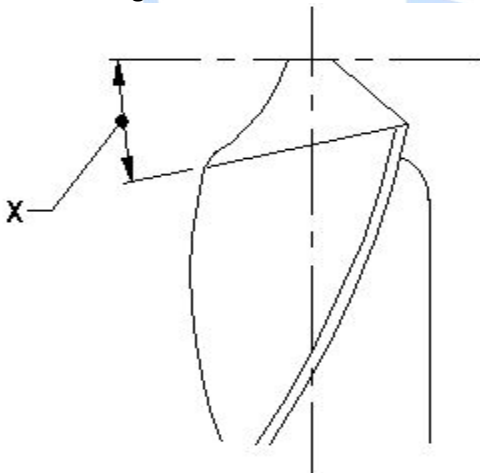
11). What is the name of the die shown in the figure?



- (A) Circular split die
- (B) Half die
- (C) Die nut
- (D) Adjustable screw plate die

Correct Answer: A

12). What is the name of the angle marked as 'X' shown in the figure?



- (A) Chisel angle
- (B) Rake angle
- (C) Point angle
- (D) Lip clearance angle

Correct Answer: D

13). What is the purpose of providing chamfer at the end of the taps?

- (A) For holding and turning of tap
- (B) To form the cutting edges

(C) To assist and align

(D) For easy chip removal

Correct Answer: C

14). What is the name of the angle marked as 'X' shown in the figure?



- (A) Tapper lead angle
- (B) Bevel angle
- (C) Helix angle
- (D) Clearance angle

Correct Answer: C

15). Which tool is used to rotate the die nut during the reconditioning of damaged threads?

- (A) Spanner
- (B) Die holder
- (C) Tap wrench
- (D) Allen key

Correct Answer: A

16). What is the purpose of type "N" twist drills?

- (A) Used for hard material
- (B) Used for brittle material
- (C) Used for soft and tough material
- (D) Used for normal low carbon steel

Correct Answer: D

17). What is the name of the die that has a slot cut to permit slight variation in size?

- (A) Die nut
- (B) Circular split die
- (C) Half die

(D) Adjustable screw plate die

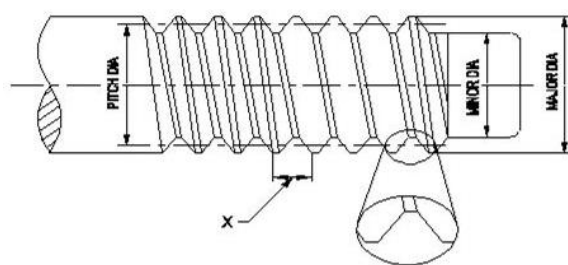
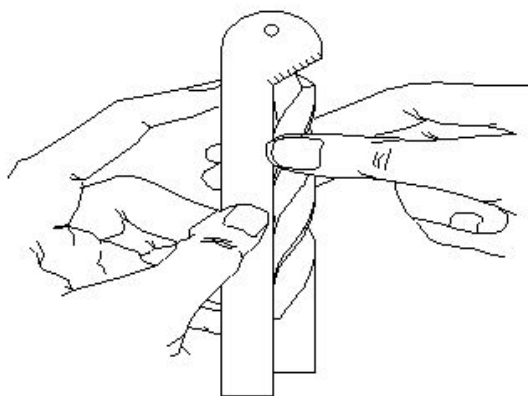
Correct Answer: B

18). Which operation enlarges the hole for a given depth?

- (A) Reaming
- (B) Spot facing
- (C) Counter boring
- (D) Counter sinking

Correct Answer: C

19). What is the name of the gauge shown in the figure?



- (A) Standard wire gauge
- (B) Template
- (C) Drill angle gauge D
- (D) Snap gauge

Correct Answer: C

20). Why hand reamers are provided with uneven spacing of teeth?

- (A) To reduce chattering
- (B) To remove more metals
- (C) To increase the efficiency
- (D) To increase the tool of the life

Correct

Answer: A

21). Calculate the blank size for preparing a bolt of M12 X1.75 using die.

- (A) 1.8 mm
- (B) 11 mm
- (C) 0.5 mm
- (D) 1.5 mm

Correct Answer: A

22). What is the size of the Letter 'A' drill?

- (A) 6.045 mm
- (B) 6.147 mm
- (C) 5.944 mm
- (D) 6.248 mm

Correct Answer: C

23). Which process refers to the finishing of drilled hole?

- (A) Reaming
- (B) Spot facing
- (C) Counter boring
- (D) Counter sinking

Correct Answer: A

24). What is the name of the element marked as 'X' shown in the figure?

- (A) Root
- (B) Lead
- (C) Pitch
- (D) Flank

Correct Answer: C

25). Which method is suitable to remove the broken stud that is very near to the surface?

- (A) Ezy out method
- (B) Making drill hole
- (C) Prick punch method
- (D) Using square taper punch

Correct Answer: C



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Drill and Threads

1). What is the advantage of gauging of components?

- (A) Skilled operator is required
- (B) Faster checking of the product
- (C) Expensive
- (D) Slower checking

Correct Answer: B

2). What is the use of diamond dresses?

- (A) Dressing and truing of grinding wheel
- (B) Balancing the grinding wheel
- (C) Holding the grinding wheel
- (D) Guarding the grinding wheel

Correct Answer: A

3). What is the advantage of mass production?

- (A) Initial expenditure is high
- (B) Gauges are used
- (C) Jig and fixtures
- (D) Spare parts can be quickly made available

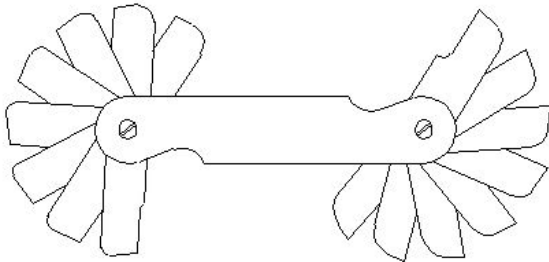
Correct Answer: D

4). Which process makes the grinding wheel run in concentric circles?

- (A) Truing
- (B) Glazing
- (C) Loading
- (D) Balancing

Correct Answer: A

5). What is the name of the gauge shown in the figure?



- (A) Pitch gauge
- (B) Angle gauge
- (C) Feeler gauge
- (D) Radius gauge

Correct Answer: D

6). Which indicates the strength of the bond in the grinding wheel?

- (A) Grid
- (B) Grade
- (C) Structure
- (D) Grain size

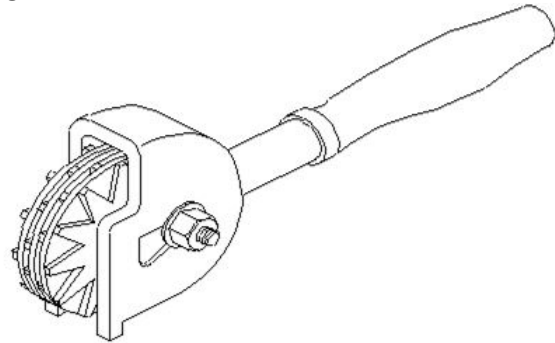
Correct Answer: B

7). Why silicate bond is preferred for grinding fine tools and cutters than vitrified bond?

- (A) For high stock removal
- (B) For milder cutting action and less harshness
- (C) To produce less heat
- (D) For flexibility and fine finish

Correct Answer : B

8). What is the name of the dresser shown in the figure?



- (A) Stone dresser
- (B) Diamond dresser
- (C) Star wheels dresser
- (D) Abrasive stick dresser

Correct Answer: C

9). Why annular groove is provided on the knurled surface of plain ring gauge?

- (A) To Identify "NO GO" gauge
- (B) To identify "GO" gauge
- (C) Provides more grip to the gauge
- (D) Provides appearance to the gauge

Correct Answer: A

10). What is the use of thread ring gauge?

- (A) To check the external thread
- (B) To check the internal thread
- (C) To check the external taper
- (D) To check the internal taper

Correct Answer: A

11). Which bond is used in the grinding wheel of grinding mill rolls?

- (A) Vitrified bond
- (B) Silicate bond
- (C) Shellac bond
- (D) Resinoid bond

Correct Answer: C

12). Why grinding wheels are dressed?

- (A) To restore the correct cutting action of the wheel
- (B) To make it run concentric with the air
- (C) To align the wheel in the spindle
- (D) To remove cracks from the wheel

Correct Answer: A

13). Which limit gauge is used to check the outside diameter of workpieces?

- (A) Plug gauge
- (B) Progressive plug gauge
- (C) Taper plug gauge
- (D) Plain ring gauge

Correct Answer: D

14). Which machine uses star wheel dressers for dressing the grinding wheel?

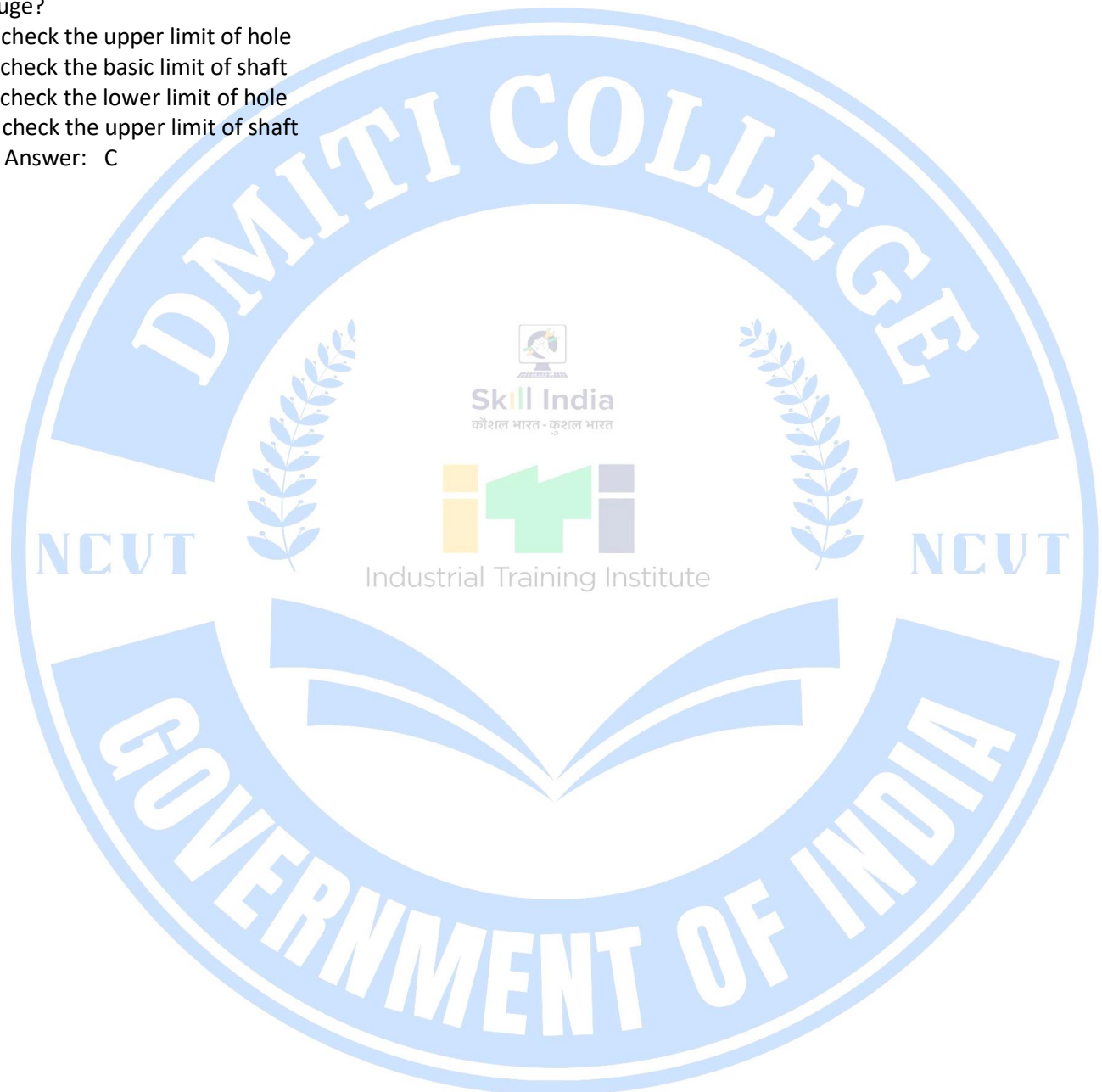
- (A) Cylindrical grinder
- (B) Surface grinder
- (C) Pedestal grinder
- (D) Centreless grinder

Correct Answer: C

15). What is the use of "GO" gauge in progressive plug gauge?

- (A) To check the upper limit of hole
- (B) To check the basic limit of shaft
- (C) To check the lower limit of hole
- (D) To check the upper limit of shaft

Correct Answer: C



Grinding and Gauges

1). What is the difference between the maximum limit of size and the minimum limit of size?

- (A) Tolerance
- (B) Basic size
- (C) Limits of size
- (D) Upper deviation

Correct Answer: A

2). Why zinc alloy is used for coating of roofing sheets?

- (A) Due to low density
- (B) Due to thermal expansion
- (C) Due to corrosion resistant
- (D) Due to heat conduction

Correct Answer: C

3). Which is the purest form of an iron?

- (A) Grey cast iron
- (B) Wrought iron
- (C) Pig iron
- (D) Cast iron

Correct Answer: B

4). Which alloy is used for coating on steel sheets of food containers?

- (A) Tin
- (B) Lead
- (C) Copper
- (D) Bronze

Correct Answer: A

5). What is the maximum clearance value if hole size is

$20 \begin{smallmatrix} +0.021 \\ -0.000 \end{smallmatrix}$ and shaft size is $20 \begin{smallmatrix} -0.007 \\ -0.020 \end{smallmatrix}$?

- (A) 0.020 mm
- (B) 0.007 mm
- (C) 0.028 mm
- (D) 0.041 mm

Correct Answer: D

6). Why lime stone is added as flux to the ore in the blast furnace?

- (A) To form molten slag
- (B) To supply oxygen
- (C) To burn the carbon in coke
- (D) To increase the melting point of ore

Correct Answer: A

7). Which steel is used for making cold chisels?

- (A) Dead mild steel
- (B) Medium carbon steel
- (C) High carbon steel
- (D) Mild steel

Correct Answer: C

8). What is the expression for 30H7/g6?

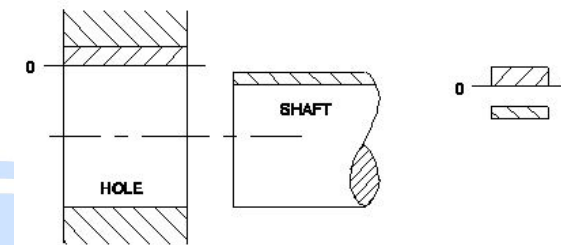
- (A) Fit
- (B) Limits

(C) Deviation

(D) Tolerance

Correct Answer: A

9). What is the name of the fit shown in the figure?



- (A) Transition fit
- (B) Clearance fit
- (C) Shrinkage fit
- (D) Interference fit

Correct Answer: B

10). When can interchangeability be used effectively in manufacturing industry?

- (A) For repairing and reworking
- (B) For single piece production
- (C) For batch production
- (D) For selective assembly

Correct Answer: C

11). What is the algebraic difference between the actual size and its corresponding basic size?

- (A) Deviation
- (B) Tolerance
- (C) Actual deviation
- (D) Upper deviation

Correct Answer: C

12). Which ore extracts zinc?

- (A) Bauxite
- (B) Galena
- (C) Calamine
- (D) Cassiterite

Correct Answer: C

13). What is the name of the part marked as 'x' shown in the figure?

- 14). What is the upper limit of the component size?

scale
scale
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s the upper limit of the compo

- 15). What is the least count of Vernier height gauge if 49 main scale divisions is equally divided into 50 vernier scale division and $1\text{msd}=1\text{mm}$?

- 16). What is the name of the part marked as 'X' shown in the figure?



- 17). What is the name of the fit shown in the figure?



- 18). Why agricultural equipment is made up of wrought iron?

- Correct Answer: D

19). Why hole basis system is preferred over shaft basis system?

- (A) For easy handling of shaft
- (B) Easier to alter the shaft
- (C) Difficult to alter the shaft
- (D) Easier to check the shaft

Correct Answer: B

20). Which term refers to the relationship that exists between two mating parts?

- (A) Fit
- (B) Limit
- (C) Tolerance
- (D) Allowance

Correct Answer: A

21). What is the maximum limit of size, if the basic size of the hole is 25 mm and the deviation is $\pm 0.2\text{mm}$?

- (A) 5.2 mm
- (B) 4.8 mm
- (C) 5.02 mm
- (D) 4.08 mm

Correct Answer: A

22). What is the purpose of dial test indicator attached to a vernier height gauge?

- (A) To check the parallelism
- (B) To check angular measurement
- (C) To check perpendicularity
- (D) To check the width of slots

Correct Answer: A

23). Which tool is used to remove high spots on all flat and curved surfaces?

- (A) File
- (B) Hacksaw
- (C) Chisel
- (D) Scraper

Correct Answer: D

24). What is the lower limit of size, if dimension is stated as

$\varnothing 25^{+0.021}_{-0.000}$

- (A) 4.85 mm
- (B) 4.75 mm
- (C) 5.00 mm
- (D) 5.021 mm

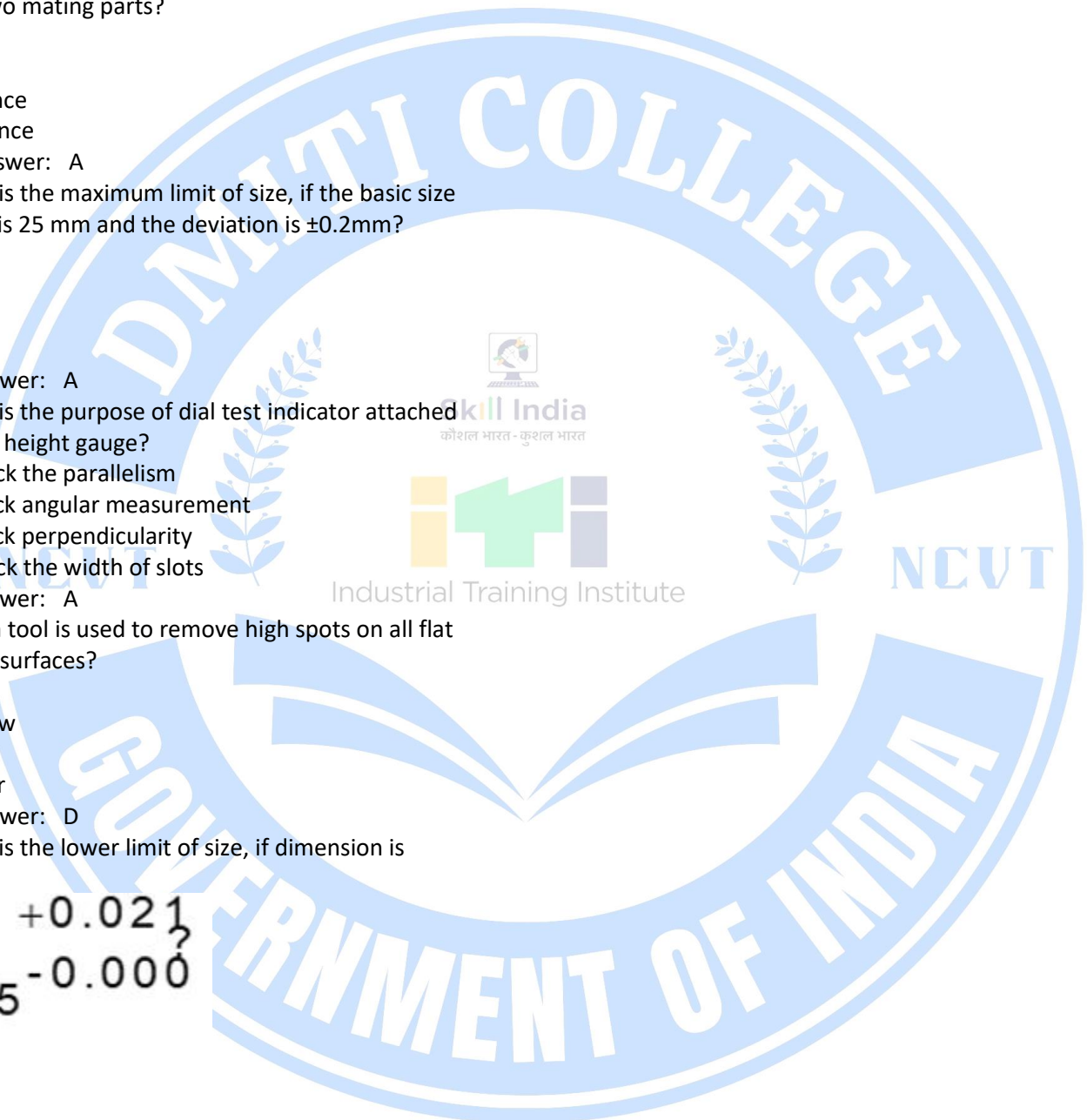
Correct Answer: C

25). Which cast iron has the ability to reduce vibration and tool chattering in machine tools?

- (A) Grey cast iron
- (B) White cast iron
- (C) Nodular cast iron

(D) Malleable cast iron

Correct Answer: A



Interchangeability, Limits and Fits, Iron and Scraper

1). When is a vernier micrometer preferred over ordinary micrometer for taking measurement?

- (A) Need an accuracy of 0.02 mm
- (B) Need an accuracy of 0.001 mm
- (C) Need an accuracy of 0.0001 mm
- (D) Need an accuracy of 0.01 mm

Correct Answer: B

2). Which fasteners joins two or more components and can be dismantled without any damaging?

- (A) Semi-permanent fasteners
- (B) Temporary fasteners
- (C) Permanent fasteners
- (D) Rigid fasteners

Correct Answer: B

3). Which fasteners' components cannot be separated without any damage?

- (A) Temporary fasteners
- (B) Semi-permanent fasteners
- (C) Permanent fasteners
- (D) Removable fasteners

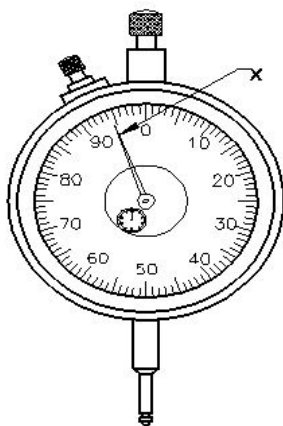
Correct Answer: C

4). Which semi-permanent fasteners firmly holds the plate and steel sections?

- (A) Welding
- (B) Bolt and nut
- (C) Soldering
- (D) Rivet

Correct Answer: D

5). What is the name of the part marked as 'X' shown in the figure?



- (A) Anvil
- (B) Stem
- (C) Pointer
- (D) Plunger

Correct Answer: C

6). When is ring bezel rotated in dial test indicator?

- (A) For repairing
- (B) For maintenance

(C) For zero setting

(D) For assembling

Correct Answer: C

7). What is the use of screw thread micrometer?

- (A) To measure outside diameter
- (B) To measure root diameter
- (C) To measure effective diameter
- (D) To measure minor diameter

Correct Answer: C

8). Which mechanism is used in the lever type dial test indicator?

- (A) Rack and pinion
- (B) Worm and worm wheel
- (C) Lever and scroll
- (D) Pawl and ratchet

Correct Answer: C

9). Which factor determines the selection of wire in screw thread micrometer?

- (A) Thread angle
- (B) Pitch of the thread
- (C) Root and crest
- (D) Major diameter

Correct Answer: B

10). Why the measuring instruments are calibrated?

- (A) For easy operation
- (B) To maintain the accuracy of the measuring device
- (C) For easy maintenance
- (D) To reduce quality of the product

Correct Answer: B

11). What is the least count of the metric vernier micrometer?

- (A) 0.01 mm
- (B) 0.02 mm

(C) 0.001 mm

(D) 0.002 mm

Correct Answer: C

12). Which instrument has the magnification of the small movement of the plunger converted into a rotary motion of the pointer on a circular scale?

- (A) Dial test indicator
- (B) Screw thread micrometer
- (C) Inside micrometer
- (D) Flange micrometer

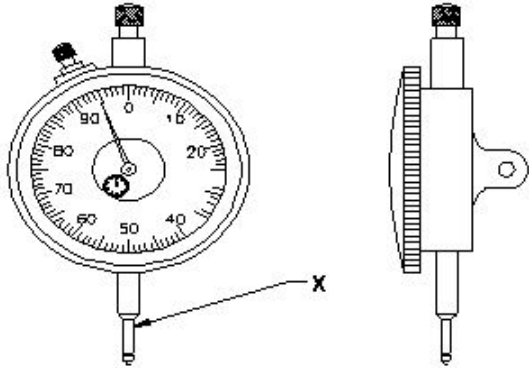
Correct Answer: A

13). Which micrometer has the provision of interchangeable anvils?

- (A) Depth micrometer
- (B) Inside micrometer
- (C) Outside micrometer
- (D) Screw thread micrometer

Correct Answer: D

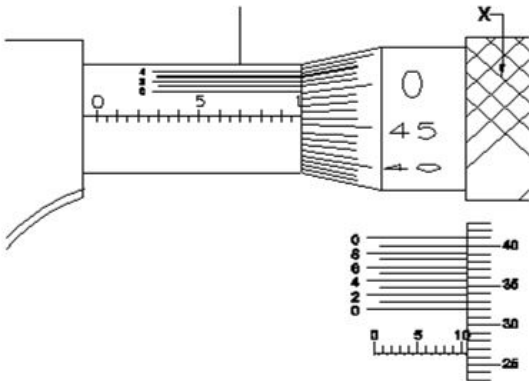
14). What is the name of the part marked as 'X' shown in the figure?



- (A) Anvil
- (B) Stem
- (C) Pointer
- (D) Plunger

Correct Answer: D

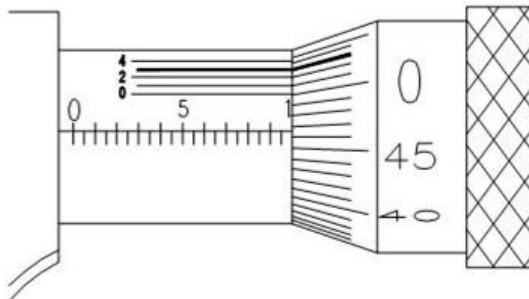
15). What is the name of the part marked as 'X' shown in the figure?



- (A) Anvil
- (B) Barrel
- (C) Thimble
- (D) Ratchet stop

Correct Answer: C

16). What is the reading of vernier micrometer shown in the figure?

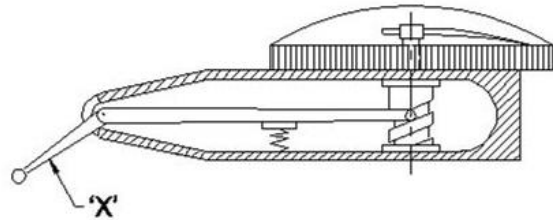


- (A) 9.923 mm
- (B) 9.963 mm
- (C) 9.563 mm

(D) 9.763 mm

Correct Answer: B

17). What is the name of the part marked as 'X' shown in the figure?



- (A) Pivot
- (B) Lever
- (C) Stylus
- (D) Scroll

Correct Answer: C

18). Why digital dial indicator is superior than the ordinary dial indicator?

- (A) For overloading capacity
- (B) Does not affect the environment condition
- (C) To record and transmit data
- (D) Effect of noise is less predominant

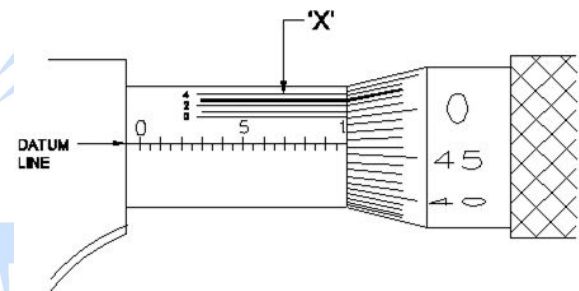
Correct Answer: C

19). Which diameter is measured using three wire method?

- (A) Effective diameter
- (B) Root diameter
- (C) Crest diameter
- (D) Core diameter

Correct Answer: A

20). What is the name of the part marked as 'X' shown in the figure?



- (A) Barrel
- (B) Thimble
- (C) Datum line
- (D) Vernier division

Correct Answer: D

Vernier micrometer, Screw thread micrometer, Dial and Digital indicators

1). Which type of thread is used in the screw jack?

- (A) Vee thread
- (B) Acme thread
- (C) Knuckle thread
- (D) Square thread

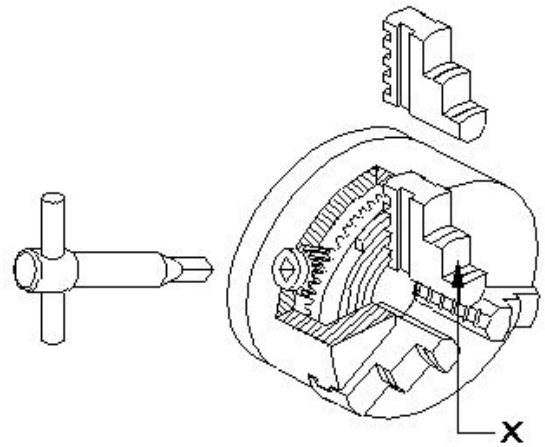
Correct Answer: D

2). Which angle of the tool prevents while parting from getting jammed in the groove and causes breakage?

- (A) Side rake angle
- (B) Side relief angle
- (C) Side clearance angle
- (D) Front clearance angle

Correct Answer: B

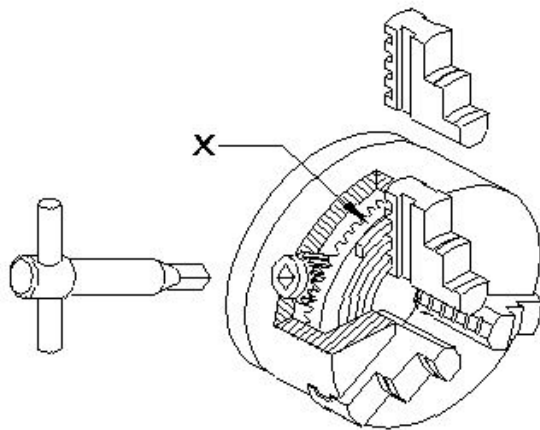
3). What is the name of the part marked as 'x' shown in the figure?



- (A) Body
- (B) Back plate
- (C) Jaw
- (D) Crown wheel

Correct Answer: C

7). What is the name of the specification marked as 'x' shown in the figure?



- (A) Body
- (B) Back plate
- (C) External jaw
- (D) Crown wheel

Correct Answer: D

4). What happens if the tool is not set to the correct centre height while facing?

- (A) Convex face
- (B) Concave face
- (C) Pip left in the centre
- (D) Rough surface on the face

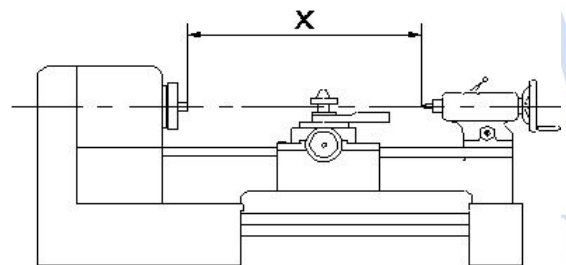
Correct Answer: C

5). Which change gear is required to cut 3 mm pitch on a workpiece in a lathe having a lead screw of 6 mm pitch?

- (A) Driver - 60 teeth, Driven - 120 teeth
- (B) Driver - 66 teeth, Driven - 44 teeth
- (C) Driver - 44 teeth, Driven - 66 teeth
- (D) Driver - 120 teeth, Driven - 60 teeth

Correct Answer: A

6). What is the name of the part marked as 'X' shown in the figure?



- (A) Length of the bed
- (B) Centre height of lathe
- (C) Length between centre
- (D) Swing diameter

Correct Answer: C

8). Which property of the lubricant has the ability to flow if poured?

- (A) Flash point
- (B) Pour point
- (C) Fire point
- (D) Viscosity

Correct Answer: B

9). How many types of bed ways are in the centre lathe machine?

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

Correct Answer: B

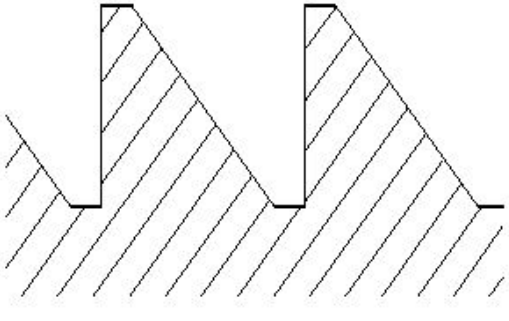
10). Why four jaw chuck is preferred over three jaw chuck?

- (A) Only suitable for cylindrical jobs
- (B) Heavy cuts can be given

- (C) Less setting time and skill required
(D) Only suitable for light weight jobs

Correct Answer: B

11). What is the name of the thread shown in the figure?



- (A) Worm thread
(B) knuckle thread
(C) Square thread
(D) Buttress thread

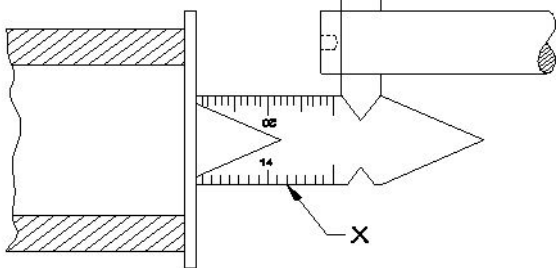
Correct Answer: D

12). What is the purpose of back gear unit in the lathe machine?

- (A) To reduce the spindle speed
(B) To increase the spindle speed
(C) To quickly change spindle speed
(D) To avoid abnormal impact on spindle

Correct Answer: A

13). What is the name of the gauge marked as 'x' shown in the figure?



- (A) Feeler gauge
(B) Centre gauge
(C) Screw pitch gauge
(D) Standard wire gauge

Correct Answer: B

14). Calculate spindle speed for a turning dia 40 mm cast iron rod, if the cutting speed is 15 m/min.

- (A) 9.4 rpm
(B) 0.3 rpm
(C) 9.3 rpm
(D) 9.4 rpm

Correct Answer: A

15). What is the vertical distance of the element of screw thread from crest to the root?

- (A) Lead
(B) Flank
(C) Pitch
(D) Depth

Correct Answer: D

16). What happens if the carriage is not locked while facing?

- (A) Correct face
(B) Convex face
(C) Concave face
(D) Pip left in the centre

Correct Answer: B

17). What operation is performed if the tailstock centre is offsetted from the head stock while working between centres?

- (A) Parallel turning operation
(B) Step turning operation
(C) Threading operation
(D) Taper turning operation

Correct Answer: D

18). What is the function of a lathe bed?

- (A) To locate tool post
(B) To locate tailstock spindle
(C) To provide slide-ways
(D) To locate spindle motor

Correct Answer: C

19). What is the defect caused by pip left in the centre of the job after facing?

- (A) Tool not set to the correct centre height
(B) Blunt cutting edge
(C) Low feed rate
(D) Tool over hanging

Correct Answer: A

20). What is the advantage of cutting fluid in turning operation?

- (A) Will give poor surface finish
(B) Increases the tool wear
(C) Increases the corrosion rate
(D) Cools the tool and workpiece

Correct Answer : D

21). What is the purpose of top slide in lathe?

- (A) Supports tool post with cutting tool
(B) Provides cross movement for the tool
(C) To hold drill

(D) To support the lengthy works

Correct Answer : A

22). How to prevent the tool from rubbing against the work surface in metal cutting process?

- (A) Decrease the rake angle
(B) Increase the rake angle
(C) Increase the clearance angle

(D) Decrease the tool wedge angle

Correct Answer : C

23). What is the cause of a drilled hole being shifted from the centre of the job on a lathe?

(A) Head and tail stocks not aligned

(B) High spindle speed

(C) Low feed

(D) Blunt drill

Correct Answer : A

24). What is the maximum swivelling angle of the compound rest in the lathe machine?

(A) 90°

(B) 180°

(C) 220°

(D) 360°

Correct Answer : D

25). Which type of oil is used for extreme cutting conditions of modern tools?

(A) Lard oil

(B) Soluble mineral oil

(C) Straight mineral oil

(D) Sulphurized oil

Correct Answer : D



Lathee

1). What is the first step of the autonomous maintenance?

- (A) General inspection
- (B) Autonomous inspection
- (C) Increase operator knowledge
- (D) Autonomous management

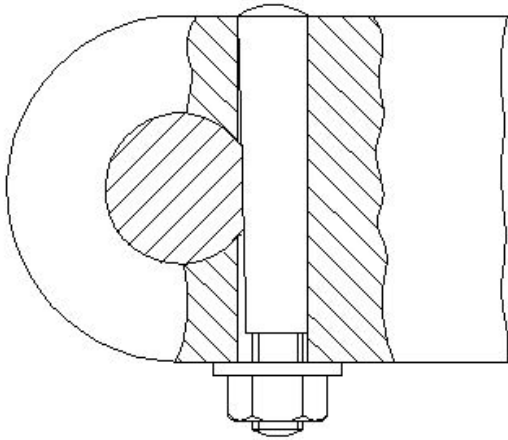
Correct Answer: C

2). How does the maintenance record provide judgement about the frequency of preventive maintenance?

- (A) By analysing rejection and rework
- (B) By analysing inventory and purchase
- (C) By analysing fault and rectification
- (D) By analysing quality and fit for use

Correct Answer: C

3). Which type of pin is shown in the figure?



- (A) Taper pin
- (B) Split pin
- (C) Cotter pin
- (D) Spring pin

Correct Answer: C

4). Which activity prevents breakdown of machinery in basic maintenance?

- (A) Routine maintenance
- (B) Preventive maintenance
- (C) Reactive maintenance
- (D) Autonomous maintenance

Correct Answer: B

5). What is the solution for sealing between mating surfaces with a poor surface finish?

- (A) Using compressed cork gasket
- (B) Using rubber gasket
- (C) Using PTFE cord sealing
- (D) Using metallic gasket

Correct Answer: A

6). Which formula is used to find weight of raw material?

- (A) Volume $\times$ specific weights
- (B) Area $\times$ density

(C) Volume $\times$ density

(D) Area $\times$ specific weight

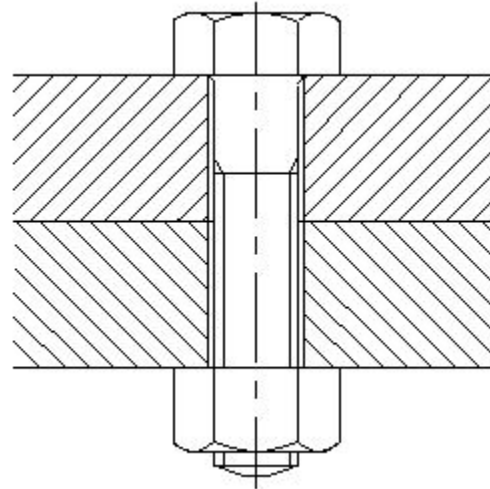
Correct Answer: C

D7). What is the availability percentage, if the machine is available to run 20 hours but has only run for 15 hours?

- (A) 75%
- (B) 57%
- (C) 25%
- (D) 5%

Correct Answer: A

8). Which type of bolt shown in the figure?



- (A) Bolt with clearance hole
- (B) Body fit bolt
- (C) Anti-fatigue bolt
- (D) 'T' bolt

Correct Answer: A

9). Which process does a comprehensive examination and restoration of a system?

- (A) Testing
- (B) Repair
- (C) Overhauling
- (D) Reasserts

Correct Answer: C

10). How is the problem of the connecting rod subjected to continuously alternating load condition is rectified?

- (A) By using bolts with clearance hole
- (B) By using anti - fatigue bolt
- (C) By using body fit bolt
- (D) By using studs

Correct Answer: B

11). Which type of maintenance provides less down time in production?

- (A) Breakdown maintenance
- (B) Preventive maintenance
- (C) Reactive maintenance

(D) Routine maintenance

Correct Answer: B

12). What is the use of maintenance records analysis?

(A) To minimize the frequent break downs

(B) To monitor tool life

(C) For operator efficiency

(D) To set up time

Correct Answer: A

13). What is the final step in overhauling process?

(A) Inspection

(B) Repair

(C) Dismantle

(D) Testing

Correct Answer: D

14). Which area is analyzed by using OEE performance measurement tool?

(A) Indicates the area of marketing development

(B) Indicates the area of vendor selection

(C) Indicates the area of employee development

(D) Indicates the area of process development

Correct Answer: D

15). Which is used as vibration isolation material?

(A) Rubber

(B) Plastic

(C) Nylon

(D) Brass

Correct Answer: A



Introduction to Employability Skill

1: Jobs that have become outdated in the past 5 years _____.

- (A) STD booth
- (B) Ola
- (C) Uber
- (D) Swiggy

Correct Answer: (A)

2.To be in a job or work is _____.

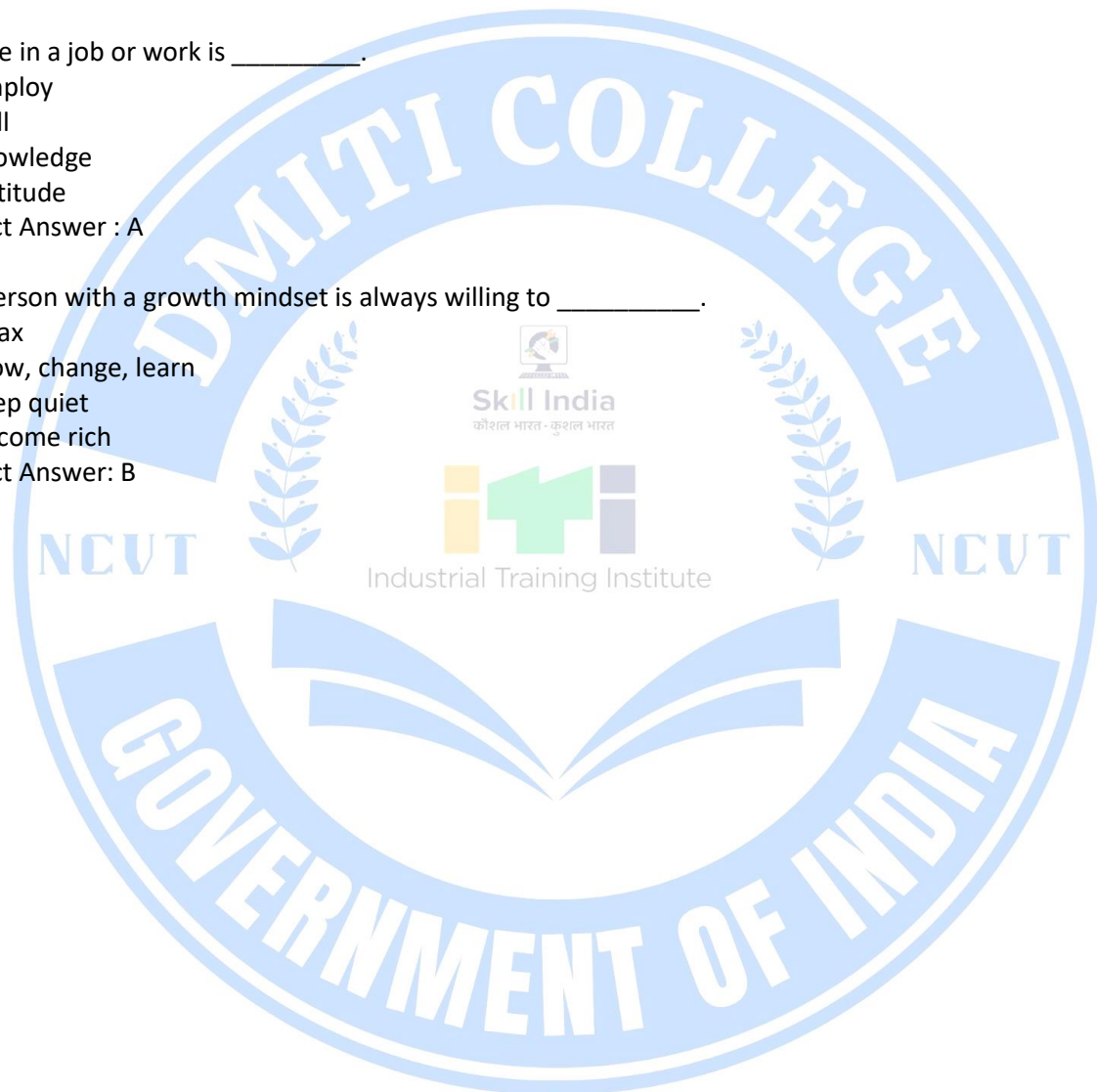
- (A) employ
- (B) skill
- (C) knowledge
- (D) aptitude

Correct Answer : A

3: A person with a growth mindset is always willing to _____.

- (A) relax
- (B) grow, change, learn
- (C) keep quiet
- (D) become rich

Correct Answer: B



Constitutional Values : Citizenship

1. Ethics means _____.

- (A) decide what is right and wrong for a human conduct
- (B) name of a city
- (C) employability skills
- (D) not relevant to society

Correct Answer : A

2. Identify the improper term.

- (A) Green pollution
- (B) Water pollution
- (C) Air pollution (D) Sound pollution

Correct Answer : A

3. Values are _____.

- (A) not punctual
- (B) motivates our attitude and action
- (C) very costly
- (D) all have same value

Correct Answer : B

4. _____ is a brief statement about purpose and principles of the constitution.

- (A) Syllabus
- (B) Module
- (C) The preamble
- (D) Unit

Correct Answer : C



Becoming a professional in the 21st century

1. Hard skill _____ .

- (A) quick learner
- (B) time management
- (C) 60 WPM typing speed
- (D) spoken english

Correct Answer : C

2. Time management _____ .

- (A) complete your task on time
- (B) managing time
- (C) hard skill
- (D) problem solving

Correct Answer : A

3. To grow yourself you must _____ .

- (A) know your office
- (B) know yourself
- (C) know your institute
- (D) know your country

Correct Answer : B

4. 1st industrial revolution started in _____ .

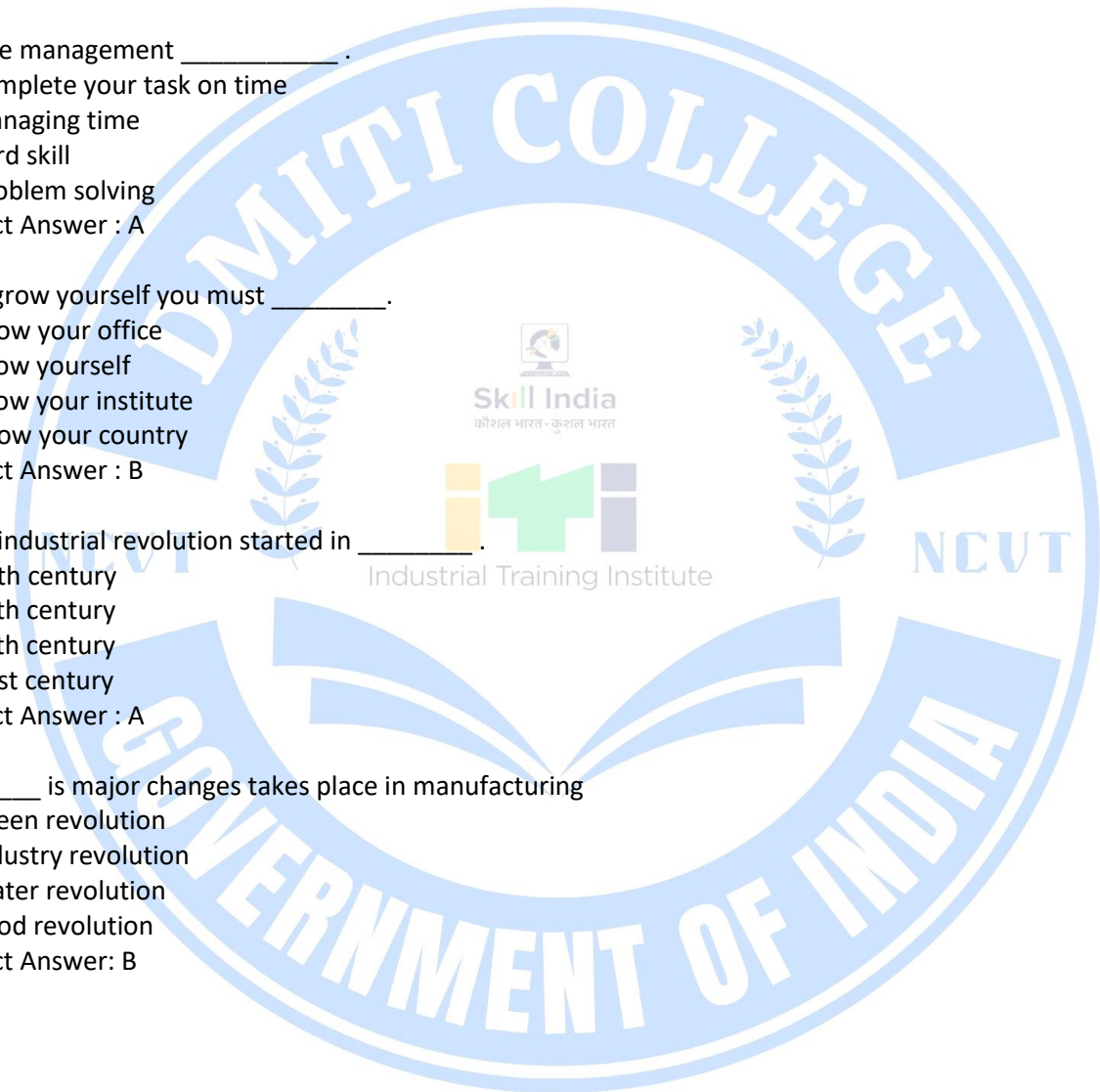
- (A) 18th century
- (B) 19th century
- (C) 20th century
- (D) 21st century

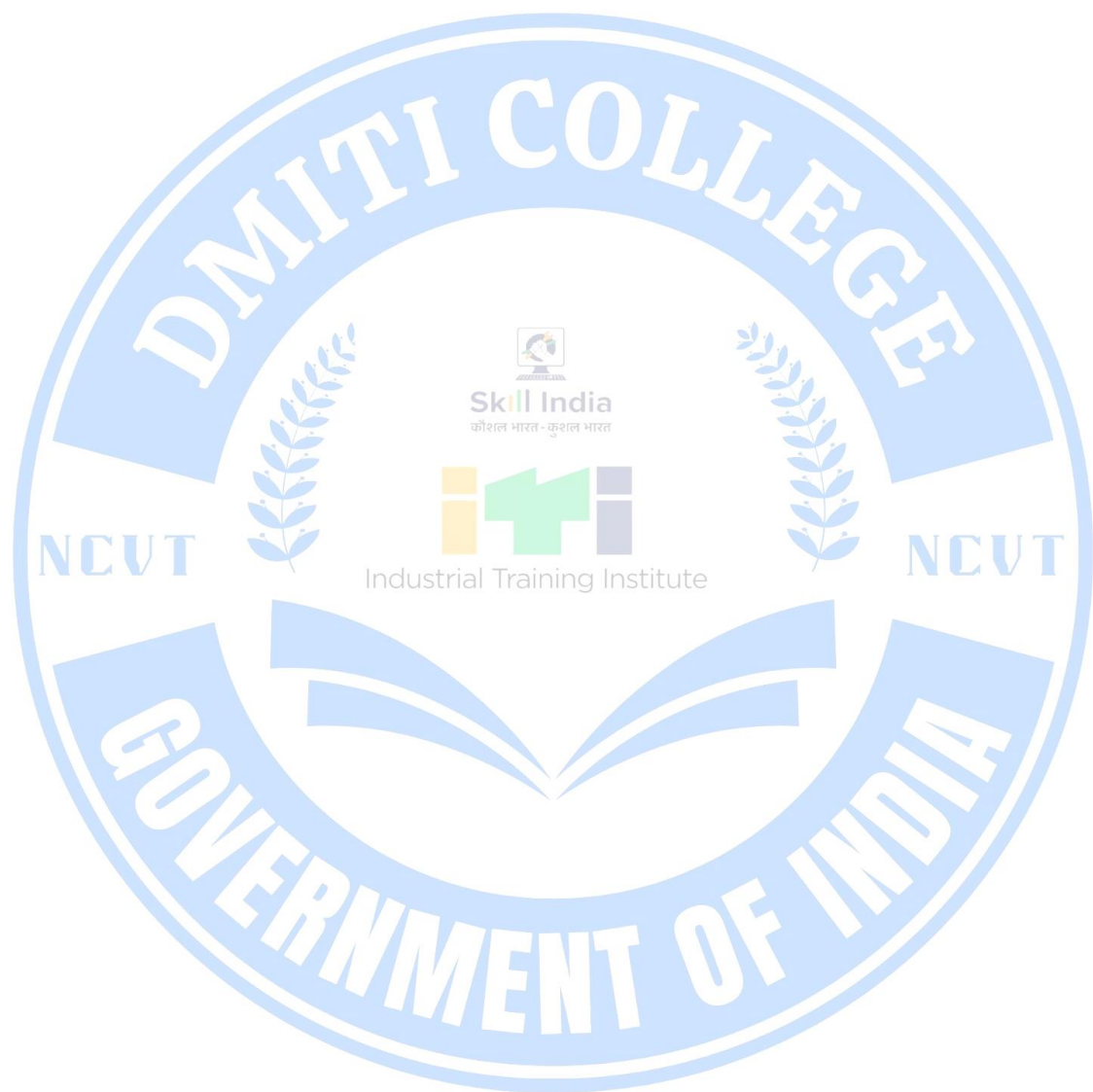
Correct Answer : A

5. _____ is major changes takes place in manufacturing

- (A) Green revolution
- (B) Industry revolution
- (C) Water revolution
- (D) Food revolution

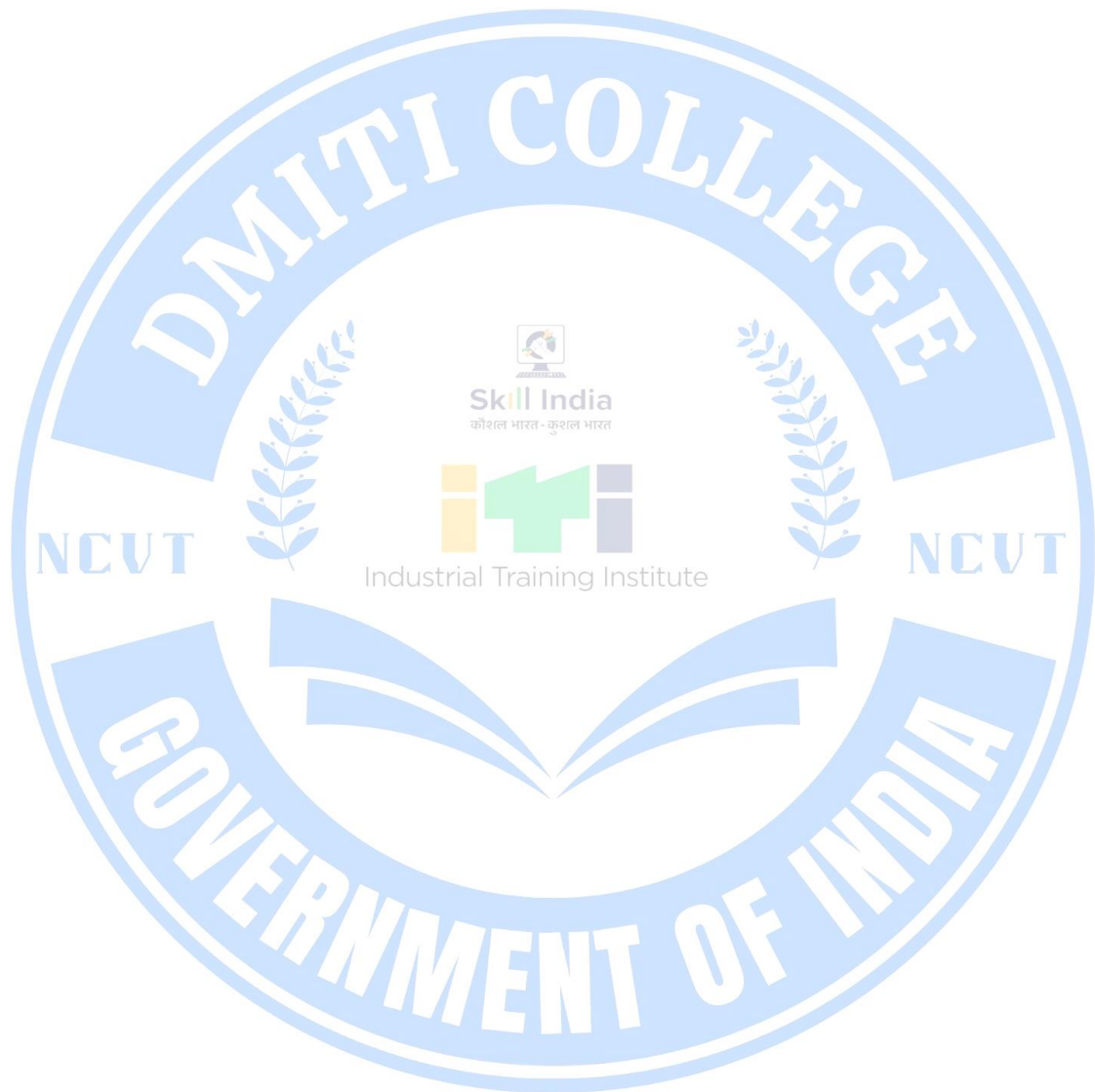
Correct Answer: B





5. _____ is major changes takes place in manufacturing(A) Green revolution (B) Industry revolution (C) Water revolution(D) Food revolution

Correct Answer: B



Basic English Skills

1). Which one is a “Don’t” of discussion etiquette?

- (A) Be open minded
- (B) Use moderate tone
- (C) Listen to others
- (D) Argue unnecessary

Correct Answer : D

2). Today's weather is going to be _____.

- (A) hopeful
- (B) warm
- (C) blue
- (D) urgent

Correct Answer : B

3). Fill in the blank with correct word. “They _____ good friends”.

- (A) is
- (B) am
- (C) are
- (D) was

Correct Answer : C

4). Which punctuation mark should be used in the following sentence? Is there any site engineer here.

- (A) ? (question mark)
- (B) , (comma)
- (C) . (full stop)
- (D) ! (exclamation)

Correct Answer : A

5). When is capital letter used?

- (A) Beginning of a sentence
- (B) Names of persons
- (C) Names of places
- (D) All the above

Correct Answer : D

6). Which one of the following is a good office etiquette?

- (A) One should dress formally
- (B) One should not be punctual to work
- (C) One should have fancy mobile ring tone
- (D) One should litter one’s work place

Correct Answer : A

7). Choose suitable “wh” word for the given sentence. “_____ animal do you like?”

- (A) Which
- (B) Why
- (C) Where

(D) When

Correct Answer : A

8). Fill in the blank with suitable place preposition. "My house is _____ the third floor".

Options: (A) at

(B) in

(C) on

(D) under

Correct Answer: (C)

9). Which one is a "Do's" of discussion etiquettes?

(A) Loose your temper

(B) Listen to others

(C) Talk about irrelevant details

(D) Use impolite or rude language

Correct Answer: (B)

10). Choose the correct response for the given question. "How have you been"?

(A) Very well, And you?

(B) Thank you_ And you?

(C) Same to you

(D) On vacation_ And you?

Correct Answer : A

11). Which one is NOT a conjunction?

(A) And

(B) Or

(C) But

(D) On

Correct Answer : D

12). Which one is NOT a vowel?

(A) a

(B) e

(C) f

(D) i

Correct Answer : C

13). Fill in the blank with proper interrogative adjective. _____ are you going

(A) Who

(B) Where

(C) Which

(D) What

Correct Answer : B

14). Fill in the blank with proper pronoun. "I made this cake _____"

(A) myself

(B) yourself

(C) himself

(D) itself

Correct Answer : A

15). Which one is a brain of computer?

- (A) Keyboard
- (B) CPU
- (C) Monitor
- (D) Hard disk

Correct Answer : B

16). Which one of the following is a describing word?

- (A) Eat
- (B) Repair
- (C) Hot
- (D) Soup

Correct Answer : C

17). When someone says 'Thank you' we should reply and say _____

- (A) Thank you.
- (B) You're welcome.
- (C) Bye-bye
- (D) How are you?

Correct Answer : B

18). Which one is NOT a benefit of the role playing?

- (A) Builds confidence
- (B) Develops listening skill
- (C) Develops creative problem-solving skill
- (D) Develops boredom

Correct Answer : D

19). When you greet higher official's such as Teacher, Instructor or Supervisor, you should use _____

- (A) Good morning
- (B) Hello
- (C) Hey
- (D) Hi

Correct Answer : A

20). Fill in the blank with proper reflexive pronoun. "She has hurt _____"

- (A) myself
- (B) herself
- (C) himself
- (D) itself

Correct Answer : B

21). The word 'when' denotes _____

- (A) place
- (B) thing
- (C) person
- (D) time

Correct Answer : D

22). Re-arrange the following set of words into meaningful sentence. "teacher / school / worked / she / a / as"

- (A) school worked as a she teacher
 - (B) **she worked as a school teacher**
 - (C) she teacher worked as a school
 - (D) worked she as a school teacher
- Correct Answer : B

23). Which one is an exclamatory sentence?

- (A) What a beautiful house it is!
- (B) It is a beautiful house.
- (C) Is it a beautiful house?
- (D) Your house is beautiful.

Correct Answer : A

24). Fill in the blank with correct future tense of verb. "We _____ to the zoo after Breakfast ".

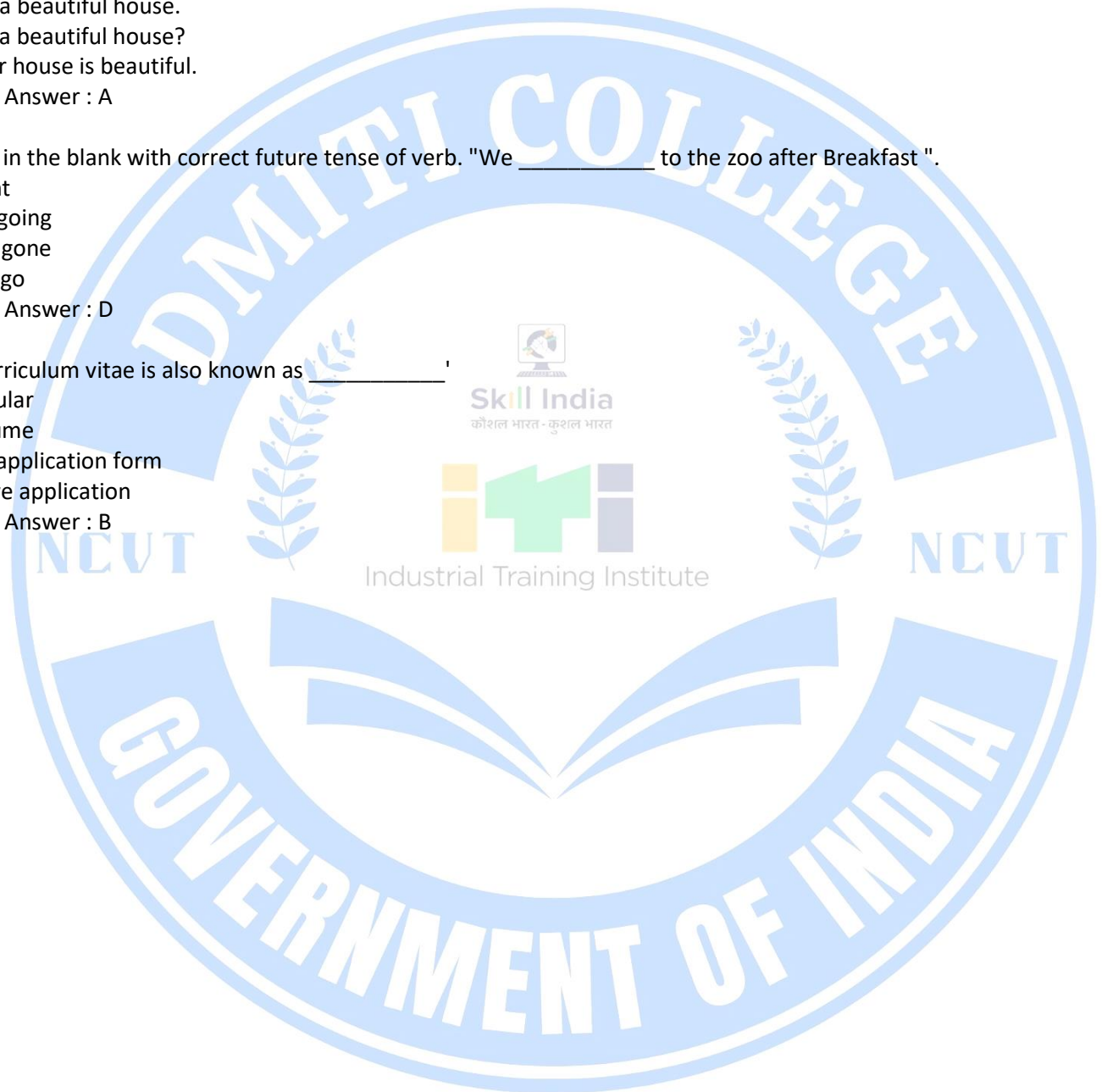
- (A) went
- (B) are going
- (C) had gone
- (D) will go

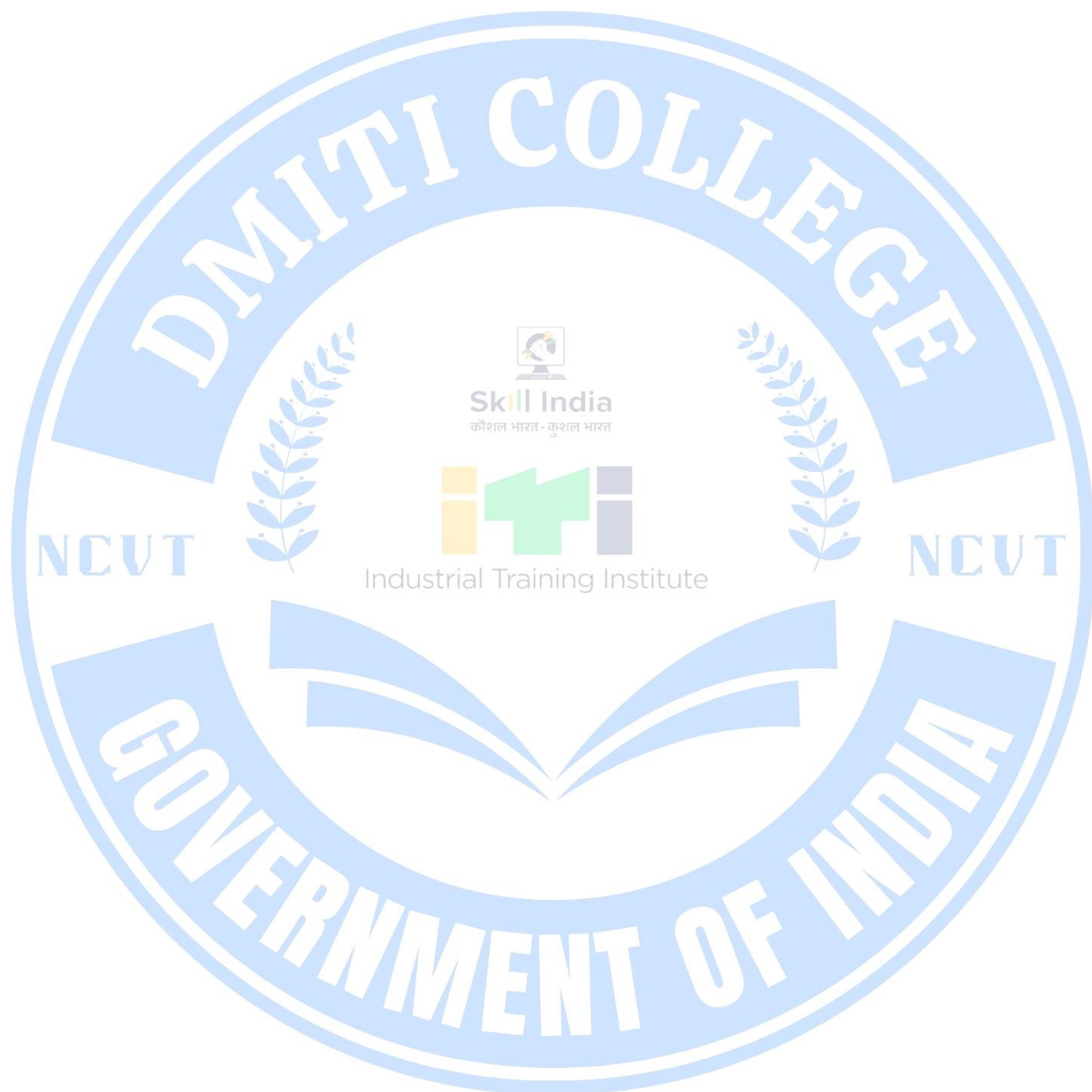
Correct Answer : D

25). Curriculum vitae is also known as _____ ,

- (A) circular
- (B) **resume**
- (C) job application form
- (D) leave application

Correct Answer : B





Career Development and Goal Setting

1). Which of these statements is true?

- (A) All jobs are available in all cities
 - (B) Some cities have more opportunities than others for certain job roles
 - (C) Salary in metro cities is always higher than small towns
 - (D) Only a few cities have job opportunities
- Correct Answer : B

2). Which among these are not good manners while travelling by public transport?

- (A) Push back our seat without checking with the person on the back seat
- (B) Be polite to fellow passengers and staff
- (C) Follow the instructions of the cabin manager
- (D) Speak in a low voice

Correct Answer : A

3). What is mindfulness?

- (A) It is the technique of not minding anything
- (B) It is about sharpening your brain
- (C) It is the ability to be fully present in a moment
- (D) It is the word used to describe people who are full of thoughts

Correct Answer : C

4). What is a comfort zone?

- (A) It is a place where we go to sleep
- (B) It is a place where children live
- (C) Our familiar lifestyle and behavior is our comfort zone
- (D) A place designed in airport for resting

Correct Answer : C

5). Which of these is a sign of good stress?

- (A) It prevents you from pursuing your goals
- (B) It makes you doubt yourself
- (C) Does not lead to long-term tension, loss of sleep
- (D) Makes you physically ill or causes pain

Correct Answer : C

6). _____ are the qualities that are considered negative, and need to be worked on.

- (A) Personal strengths
- (B) Personal weaknesses
- (C) Opportunities
- (D) Threats

Correct Answer : B

7). Which of the following statements is true?

- (A) Only experts can solve any problem
- (B) The more problems you solve, the better you will get at problem solving!
- (C) We need to pursue a course to even solve a simple problem
- (D) It is not important to solve any problem

Correct Answer : B

8). Which of the following is true about stress?

- (A) Stress can be managed
- (B) Stress cannot be controlled
- (C) Stress can not be decreased
- (D) All of the above

Correct Answer : A

9). Which of these documents are not compulsorily required for international travel?

- (A) Passport
- (B) Visa
- (C) Personal identification (eg. Aadhaar Card)
- (D) Electricity bill

Correct Answer : D

10). An activity that stops or reduces stress is called a stress buster. Which of the following according to you is not a stress buster?

- (A) Spending long hours thinking about the problem
- (B) Going to bed on time
- (C) Listening to music
- (D) Gardening

Correct Answer : A

11). Goals are of 2 types _____ .

- (A) good and bad goals
- (B) long-term and short-term goals
- (C) rich and poor goals

(D) fixed-term and non-fixed term goals

Correct Answer : B

12). Which of these should be considered while making decisions?

(A) Your mood

(B) The choices of your friends

(C) The rules of your community

(D) Your personal priorities

Correct Answer : D

13). Which of these is the full form of SWOT?

(A) Special Wellness Organization Theme

(B) Speak Work Openly Together

(C) Strong World Olympic Team

(D) Strength Weakness Opportunity Threat

Correct Answer : D

14). Which of the following is an example of personal weakness?

(A) Confidence

(B) Being lazy

(C) Hard working

(D) Active

Correct Answer : B

15). Which of these expenses are incurred when we move to a new city?

(A) Buying new clothes

(B) Buying books

(C) Buying shoes

(D) Rent of an accommodation

Correct Answer : D



Communication Skills

1). Choose the correct context of the given expression in group discussion. "Excuse me, I would _____".

- (A) interrupting
- (B) agreeing
- (C) summarizing
- (D) emphasizing a point

Correct Answer : A

2). Which one is NOT a part of Triple 'A' listening?

- (A) Anxiety
- (B) Attitude
- (C) Attention
- (D) Adjustment

Correct Answer : A

3). Noise, physical discomfort of hotness or coldness comes under _____.

- (A) culture barrier
- (B) language barrier
- (C) perception barrier
- (D) environment barrier

Correct Answer : D

4). Which one is a Do's in interview etiquette?

- (A) Dress too casually
- (B) Lie about abilities to get job
- (C) Be confident
- (D) Too excessive in gesture

Correct Answer : C

5). When you send your resume through email, you are sending it in the form of _____.

- (A) drive
- (B) attachment
- (C) marked text
- (D) cookie advertisement

Correct Answer : B

6). Goals are categorized as _____.

- (A) good and bad
- (B) inner and outer
- (C) intrinsic and extrinsic
- (D) short-term and long-term

Correct Answer : D

7). Gesture "biting nails" shows _____.

- (A) boredom
- (B) insecurity
- (C) confidence
- (D) defensiveness

Correct Answer : B

8). Which of these is not an online job search platform?

- (A) Indeed
- (B) Glassdoor
- (C) Snapchat
- (D) LinkedIn

Correct Answer : C

9). A good way to respond to the question 'Shall we start the discussion?' is _____.

- (A) To conclude
- (B) But, don't you think?
- (C) Yes, let's start.
- (D) To sum up

Correct Answer : C

10). Listening to Railway or Flight announcement, teacher's lecture comes under _____.

- (A) critical listening
- (B) appreciative listening
- (C) therapeutic listening
- (D) comprehensive listening

Correct Answer : D

11). For "SMART" Goal, S stands for _____.

- (A) Social
- (B) Scientific
- (C) Specific
- (D) Strength

Correct Answer : C

12). Which one is a "Do's" for interview etiquette?

- (A) Nervousness
- (B) Informal dress
- (C) Calm approach

(D) Excessive gesture

Correct Answer : C

13). Which one is NOT a benefit of oral communication?

(A) It is quick

(B) It is for record

(C) It is direct

(D) Feedback is immediate

Correct Answer : B

14). Which one is a "don't" in interview etiquette?

(A) Be confident

(B) Dress appropriately

(C) Proper eye contact

(D) Lie about your abilities to get job

Correct Answer : D

15). Which one is a barrier to speaking?

(A) Poor listening

(B) Lack of time

(C) Nervousness

(D) Reluctant to read

Correct Answer : C

16). Intrinsic motivation is _____.

(A) short lived

(B) long lasting

(C) for money or reward

(D) to gain social acceptance

Correct Answer : B

17). An angry person's body language will be _____.

(A) calm

(B) friendly

(C) aggressive

(D) relaxed and soothing

Correct Answer : C

18). Communication that involves exchanging information without use of words is called _____.

(A) verbal communication

(B) pictorial communication

(C) written communication

(D) non verbal communication

Correct Answer : D

19). Which one of these phrases is not related to a telephone call?

(A) Make up

(B) Pick up

(C) Hold on

(D) Call back

Correct Answer : A

20). Which one is NOT an element of 3P's of public speaking?

(A) Prepare

(B) Practice

(C) Posses

(D) Perform

Correct Answer : C

21). Which one is 3P's of public speaking?

(A) Possess, Present, Practice

(B) Prepare, Practice, Perform

(C) Publish, Pleasant, Perfect

(D) Perfection, Performance, Painsstaking

Correct Answer : B

22). The study of right and wrong in human endeavors is called _____.

(A) motivation

(B) self awareness

(C) ethics

(D) goal

Correct Answer : C

23). Which one is NOT a part of Triple 'A' listening?

(A) Anxiety

(B) Attitude

(C) Attention

(D) Adjustment

Correct Answer : A

24). Noise, physical discomfort of hotness or coldness comes under _____.

(A) culture barrier

(B) language barrier

(C) perception barrier

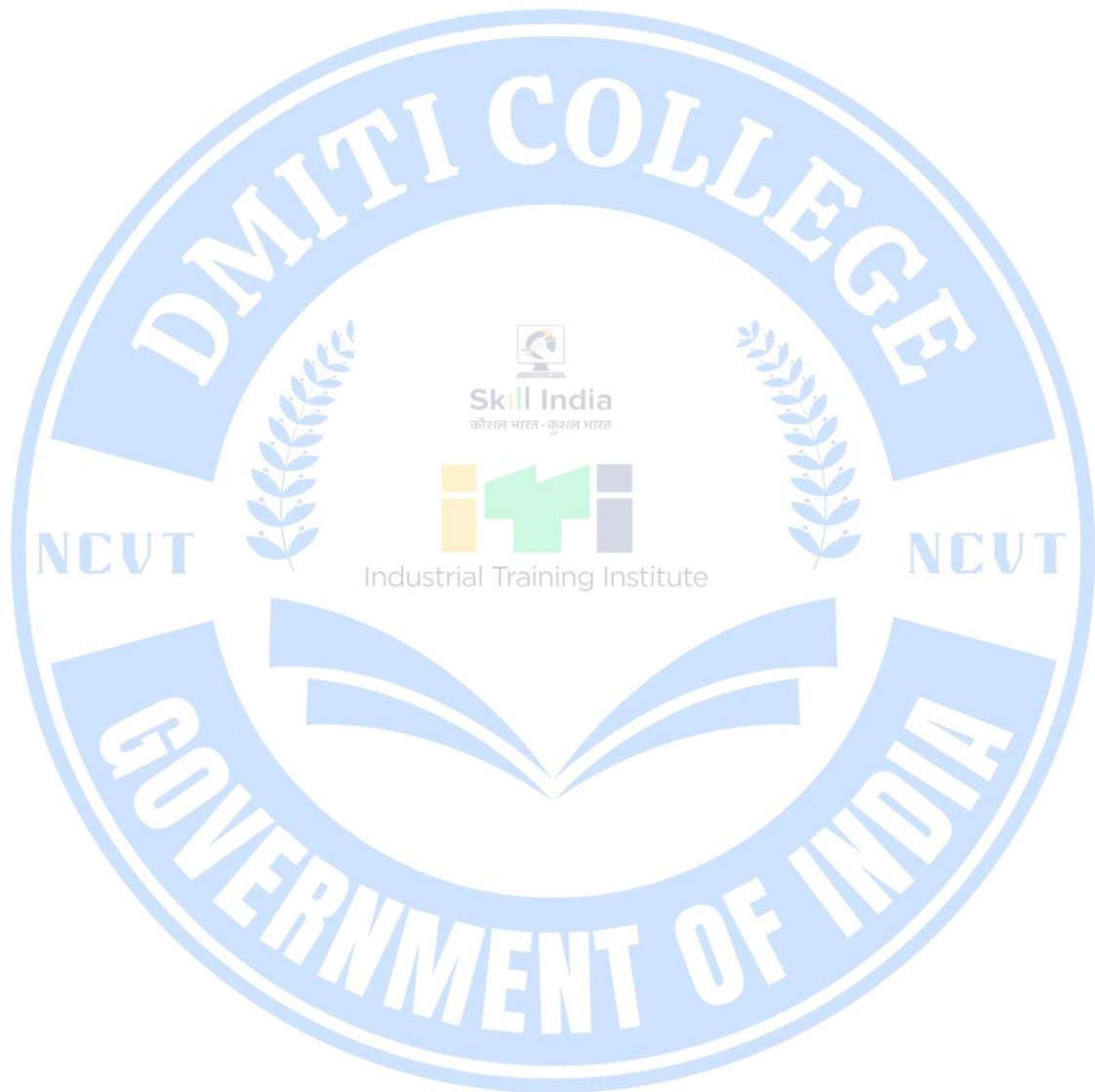
(D) environment barrier

Correct Answer : D

25). Which one is a good communication?

- (A) Message is clear and direct
- (B) Message is ambiguous
- (C) Sender attacks receiver
- (D) Receiver doesn't listen to sender

Correct Answer : A



Diversity and Inclusion

1). Someone is treated differently on their skin colour, income _____ .

- (A) nature
- (B) correct
- (C) discrimination
- (D) unity

Correct Answer : C

2). Gender stereotypes can be _____ .

- (A) personality development
- (B) harmful and hurtful
- (C) playful
- (D) cheerful

Correct Answer : B

3). Women are soft-spoken and forgiving _____ .

- (A) gender stereotype
- (B) always true
- (C) always false
- (D) sometimes

Correct Answer : A

4). Something is made of different types of units _____ .

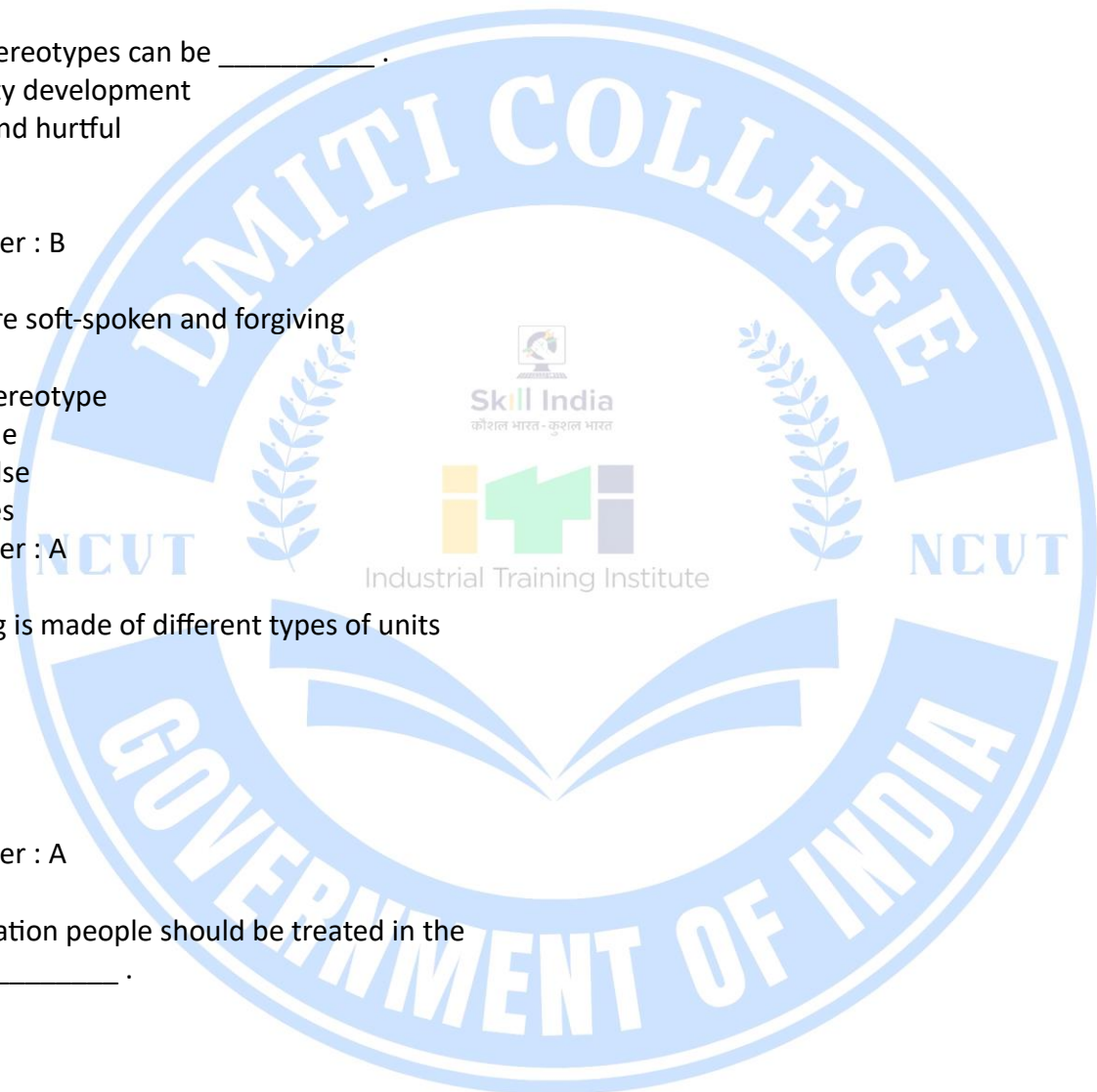
- (A) diversity
- (B) society
- (C) unity
- (D) equality

Correct Answer : A

5). Same situation people should be treated in the same way _____ .

- (A) status
- (B) society
- (C) unity
- (D) equality

Correct Answer : D



Finalcial and Legal Litarity

1). Which is not the online payment App?

- (A) PhonePe
- (B) India Pay
- (C) Google Pay
- (D) Paytm

Correct Answer : B

2). The way money is saved, spent and invested _____.

- (A) income
- (B) financial literacy
- (C) salary
- (D) banking

Correct Answer : B

3). Debit card will have how many digit numbers?

- (A) 12
- (B) 14
- (C) 16
- (D) 18

Correct Answer : C

4). Needs, wants, luxury correct examples are _____.

- (A) i) need-eating out ii) want-house to live iii) luxury-costly phone
- (B) i) need-house to live ii) want-eating out iii) luxury-costly phone
- (C) i) need-costly phone ii) want- house to live iii) luxury-eating out
- (D) i) need- costly phone ii) want- eating out iii) luxury- house to live

Correct Answer : B

5). PIN is _____.

- (A) Personal Identification Number
- (B) Professional Income Number
- (C) Personal Income Number
- (D) Professional Identification Number

Correct Answer : A

Essential Digital Skills

1). Which one is an input device?

- (A) Speaker
- (B) Joystick
- (C) Monitor
- (D) Printer

Correct Answer : B

2). An illegal activity committed on the internet is called _____.

- (A) virus
- (B) cyber crime
- (C) search engine
- (D) social networking

Correct Answer : B

3). A computer system consists of _____.

- (A) software and program
- (B) hardware and software
- (C) mouse and keyboard
- (D) circuit diagram

Correct Answer : B

4). Which one is a social networking site?

- (A) Outlook express
- (B) Face book
- (C) Lotus notes
- (D) Mozilla

Correct Answer : B

5). The expansion of RAM is _____.

- (A) Read Octet Machine
- (B) Random Access Memory
- (C) Read Access Memory
- (D) Random Access Machine

Correct Answer : B

6). In Excel, the intersection of a row and column is called a _____.

- (A) cell
- (B) label
- (C) square
- (D) worksheet

Correct Answer : A

7). Which shortcut is used to save a word file in MS-Word?

- (A) Ctrl + N
- (B) Ctrl + B
- (C) Alt + S
- (D) Ctrl + S

Correct Answer : D

8). Spread sheets are saved with extension _____.

- (A) .pdf
- (B) .doc
- (C) .xls
- (D) .mp3

Correct Answer : C

9). What is the cell address of 4th row and 4th column?

- (A) 4D
- (B) E4
- (C) D4
- (D) B4

Correct Answer : C

10). What is a shortcut key for "Cut" command?

- (A) Ctrl + C
- (B) Ctrl + V
- (C) Ctrl + A
- (D) Ctrl + X

Correct Answer : D

11). Which one is the disadvantage of social networking sites?

- (A) Instant communication
- (B) Make addictive
- (C) Access to information
- (D) Online marketing for business

Correct Answer : B

12). In an email, where will you add the recipient email address whom you want to send the copy of an email?

- (A) To
- (B) CC

- (C) Bcc
- (D) Subject

Correct Answer : B

13). _____ tab is used to insert charts, graphs, images and page number into a word file.

- (A) Standard tab
- (B) Formatting tab
- (C) Insert tab
- (D) Review pane

Correct Answer : C

14). The expansion of LAN is _____.

- (A) Local Area Name
- (B) Local Area Network
- (C) Logical Area Network
- (D) Legal Area Network

Correct Answer : B

15). Which one is NOT a storage device?

- (A) Printer
- (B) Video tape
- (C) USB flash drive
- (D) Memory card

Correct Answer : A

16). _____ is the brain of the computer.

- (A) Desktop
- (B) Window
- (C) Central Processing unit (CPU)
- (D) Keyboard

Correct Answer : C

17). In MS Excel, to insert a formula in cell, we must begin the entry with an operator _____.

- (A) =
- (B) \$
- (C) @
- (D) #

Correct Answer : A

18). In which orientation, the text is printed length wise?

- (A) Landscape
- (B) Margin
- (C) Portrait
- (D) Width

Correct Answer : C

19). What does 'ASAP' stand for, in SMS language?

- (A) As Silent As Probable
- (B) As Soon As Probable
- (C) As Soon As Possible
- (D) As Simple As Possible

Correct Answer : C

20). Which one is an output device of the computer?

- (A) Printer
- (B) MIC
- (C) Mouse
- (D) Keyboard

Correct Answer : A



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21). Which one of the following options shows the synonyms for a word, we type in MS word?

- (A) Thesaurus
- (B) Spell check
- (C) Hyperlink
- (D) Style

Correct Answer : A

22). What is a shortcut key for "Copy" command?

- (A) Ctrl + C
- (B) Ctrl + V
- (C) Ctrl + A
- (D) Ctrl + X

Correct Answer : A

23). A software application used to enable computer users to locate and access web page is called _____.

- (A) web browser
- (B) web server
- (C) website
- (D) email

Correct Answer : A

24). What is the expansion of "FYI" SMS?

- (A) For Your Information
- (B) For Your Identification
- (C) For Your Internet
- (D) For Your Innocence

Correct Answer : A

25). A program that infects other program by modifying them is called _____ .

- (A) virus
- (B) antivirus
- (C) web page
- (D) note pad

Correct Answer : A

26). You withdraw Rs.500/- from an ATM. The ATM machine gives out Rs.5000/-. Which of the following would be ethically correct?

- (A) Make a complaint
- (B) Take the money
- (C) Drop the money near ATM
- (D) Give the money to the poor

Correct Answer : A

27). Computer network that spans a regional, national or global area is called _____ .

- (A) LAN
- (B) MAN
- (C) WAN
- (D) CAN

Correct Answer : C

28). A wireless technology that connects a laptop to the internet is called _____ .

- (A) Bluetooth
- (B) WiFi
- (C) Source Network
- (D) Desktop

Correct Answer : B

29). What is the default name of newly created folder in windows?

- (A) Folder
- (B) New
- (C) New folder
- (D) Blank

Correct Answer : C

30). 1 Byte = _____ .

- (A) 2 bits
- (B) 4 bits
- (C) 8 bits
- (D) 16 bits

Correct Answer : C

31). The expansion of ROM is _____ .

- (A) Read Octet Machine
- (B) Read Only Memory
- (C) Random Only Memory
- (D) Rewrite Octet Machine

Correct Answer : B

32). Which shortcut key is used to underline the main headings of your resume?

- (A) Ctrl + U
- (B) Ctrl + B
- (C) Ctrl + L
- (D) Ctrl + X

Correct Answer : A

33). Which one is a cybercrime?

- (A) Sending email
- (B) Online purchasing
- (C) Online gambling
- (D) Chatting with friends

Correct Answer : C

34). In MS Paint, which extension is not supported?

- (A) .jpeg
- (B) .doc
- (C) .gif
- (D) .png

Correct Answer : B

35). In MS Excel, collection of work sheet is known as _____ .

- (A) worksheet
- (B) workbook
- (C) excel book
- (D) sheet work

Correct Answer : B

36). Which among the following is not an Online payment application?

- (A) Google pay
- (B) BHIM UPI
- (C) Banking applications
- (D) Instagram

Correct Answer : D

37). Which one is a file management tool that comes with windows?

- (A) Control panel

- (B) Window explorer
(C) Desktop
(D) Notepad
Correct Answer : B

38). What is shortcut key for "Paste" command?

- (A) Ctrl + C
(B) Ctrl + V
(C) Ctrl + A
(D) Ctrl + X

Correct Answer : B

39). For short distance, which network type should be used?

- (A) LAN
(B) MAN
(C) WAN
(D) CAN

Correct Answer : A

40). Which one is a web browser?

- (A) Face book
(B) Hot mail
(C) Internet explorer
(D) Outlook express

Correct Answer : C

41). The expansion of WAN is _____.

- (A) Wide Area Name
(B) Web Assigned Name
(C) Wide Area Network
(D) Web Aided Network

Correct Answer : C

42). In which orientation, the text is printed width wise?

- (A) Width
(B) Margin
(C) Portrait
(D) Landscape

Correct Answer : D

43). Which one is a "Don't" of information security?

- (A) Use hard to guess passwords
(B) Disclose password to anyone
(C) Take backup data of your PC periodically
(D) Encrypt laptop hard drive and mobile devices

Correct Answer : B

44). Which one is a search engine?

- (A) Flicker
(B) Hotmail
(C) Face book
(D) Google

Correct Answer : D

45). _____ contains one or more worksheets.

- (A) Workbook
(B) Workfile
(C) Address bar
(D) Document

Correct Answer : A

46). Where all deleted files will be stored?

- (A) CD
(B) Official folder
(C) Personal folder
(D) Recycle bin

Correct Answer : D

47). Which function key allows you to rename a file?

- (A) F1
(B) F2
(C) F3
(D) F4

Correct Answer : B

48). Which device is used to connect telephone line to a PC?

- (A) Modem
(B) Monitor
(C) Printer
(D) Hard disk

Correct Answer : A

49). What is a shortcut key for "Select all" command?

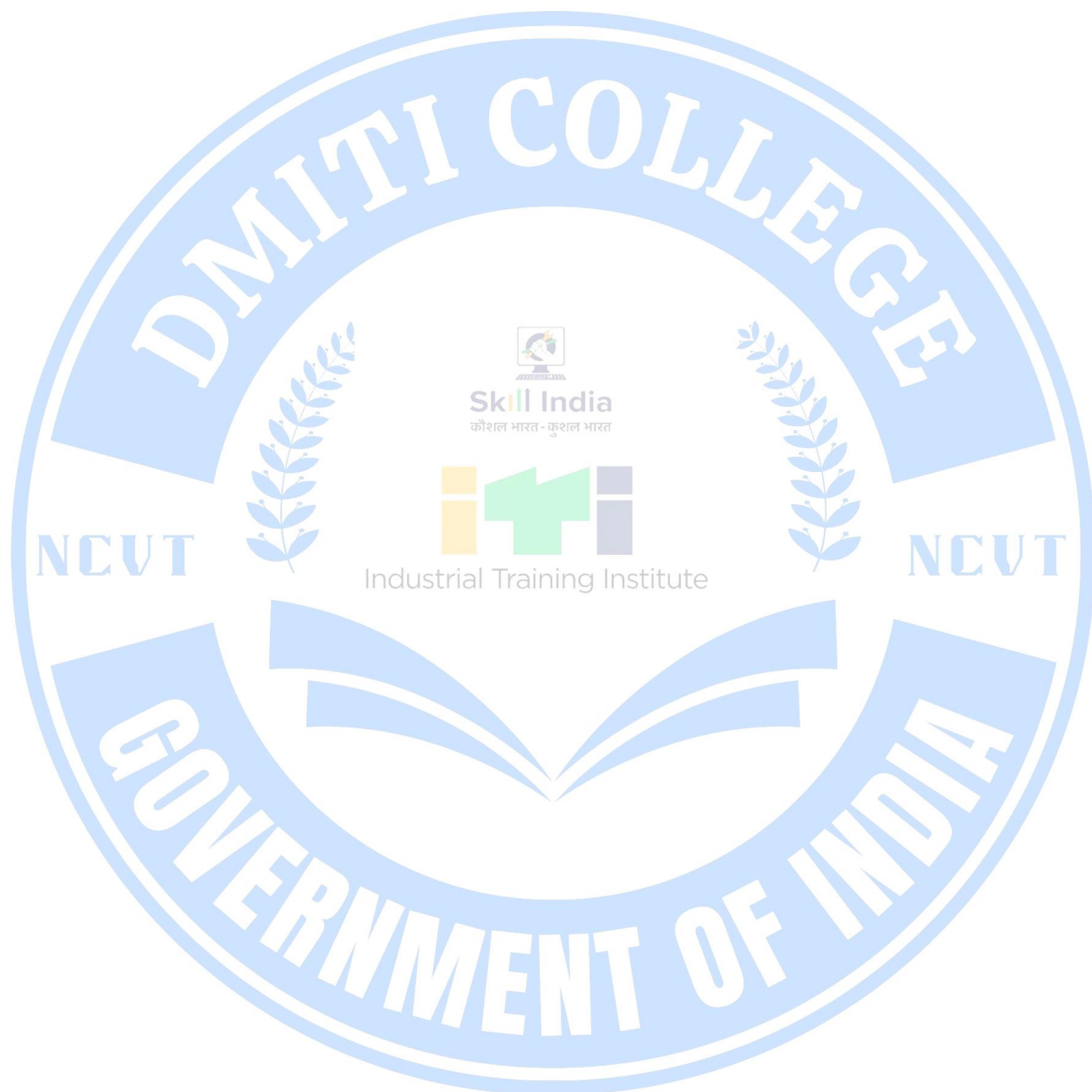
- (A) Ctrl + C
(B) Ctrl + V
(C) Ctrl + A
(D) Ctrl + X

Correct Answer : C

50). CPU stands for _____

- (A) Central Programming Unit
(B) Central Processing Unit
(C) Central Planning Unit
(D) Central Progress Unit

Correct Answer : B



Entrepreneurship

1). Money invested in purchasing of raw materials, payment of wages and salaries, rental, electricity etc. comes under _____.

- (A) working capital
- (B) fixed capital (C) long term capital
- (D) capital income

Correct Answer : A

2). In an economic growth, role of entrepreneur is to _____.

- (A) generate unemployment
- (B) stagnate standard of living
- (C) improve per capita income
- (D) unbalance the regional development

Correct Answer : C

3). As compared to small scale business, large scale business require _____.

- (A) less no. of persons
- (B) less no. of capital
- (C) more no. of person
- (D) small machines and tools

Correct Answer : C

4). Best way to identify customers needs is _____.

- (A) through 3rd person
- (B) by advertising on newspaper
- (C) by observation and message
- (D) by talking to them and survey

Correct Answer : D

5). A _____ person is someone who works for a person/organization and gets paid for that work.

- (A) Self employed
- (B) Wage employed
- (C) Entrepreneur
- (D) None of the above

Correct Answer : B

6). In SWOT analysis which pair is helpful?

- (A) Strengths, Weakness
- (B) Strengths, Opportunities
- (C) Threats, Weakness

(D) Threats, Opportunities

Correct Answer : B

7). The expansion of GDP is _____.

- (A) Gross Domestic Product
- (B) Godown Demand Product
- (C) Grand Demand Product
- (D) Giant Domestic Product

Correct Answer : A

8). Which one is a correct channel through which marketers can reach customers?

- (A) Manufacture ® Retailer ® Wholesaler ® Customer
- (B) Manufacturer ® Customer ® Retailer
- (C) Manufacturer ® Retailer ® Customer
- (D) Manufacturer ® Retailer ® Customer ® Wholesaler

Correct Answer : C

9). In "SWOT" analysis, "S" stands for _____.

- (A) Success
- (B) Strength
- (C) Survey
- (D) Service

Correct Answer : B

10). MSME stands for _____.

- (A) Micro, Scale and Medium Enterprises
- (B) Macro, Small and Medium Enterprises
- (C) Micro, Small and Medium Enterprises
- (D) Minor, Small and Medium Enterprises

Correct Answer : C

11). A person who is associated with the starting of business is called _____.

- (A) merchant
- (B) entrepreneur
- (C) businessman
- (D) sales executive

Correct Answer : B

12). The expansion of SIDO is _____.

- (A) Small Industries Development Organization

(B) Small Income Development Organization
(C) Small Investment Development Organization
(D) Standard Industry Development Organization
Correct Answer : A

13). What does 'A' in SMART stand for?

(A) Action
(B) Achievable
(C) Ambitious
(D) Awareness
Correct Answer : B

14). The enterprises engaged in the production of goods is known as _____.

(A) manufacturing enterprise
(B) service enterprises

(C) micro enterprises
(D) macro enterprises
Correct Answer : A

15). Which investment is considered for deciding the status of manufacturing enterprises?

(A) Working capital
(B) Building and land
(C) Plant and machinery
(D) Salary of employees
Correct Answer : C



Customer Service

1). Feedback helps to _____.

- (A) improve the service
- (B) modify the process or system
- (C) meet customer satisfaction better
- (D) all of the above

Correct Answer : D

2). Probing questions helps you _____.

- (A) to identify customer's specific needs
- (B) to learn customer's pain point
- (C) to introduce yourself well to the customer
- (D) building trust so you can receive honest feedback

Correct Answer : A

3). Which of the following should be avoided during probing?

- (A) Interrupting the customer
- (B) Listening carefully
- (C) Repeating
- (D) Summarizing

Correct Answer : A

4). It is best to ask _____ questions when asking questions.

- (A) open and close ended
- (B) rude
- (C) personal
- (D) sensitive

Correct Answer : A

5). What actions should be taken after getting to know customer suggestions/problems?

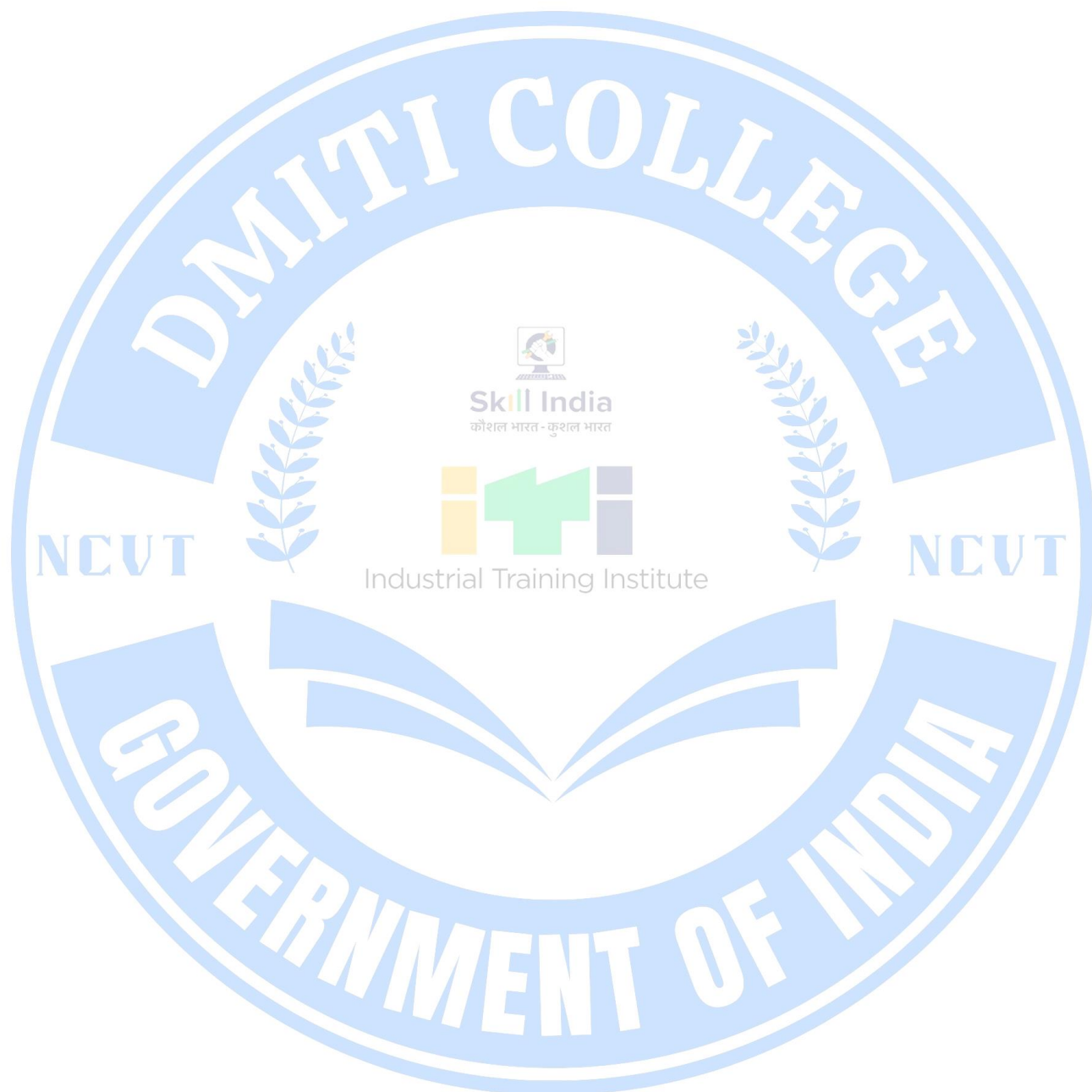
- (A) Ask, Solve
- (B) Ask, Act, Categorize
- (C) Ask, Categorize, Act, Followup
- (D) Ask, Followup

Correct Answer : C

6). Based on the information that you get through probing, you will be in a better position to make _____.

- (A) proper product suggestions
- (B) effective problem solving
- (C) build friendship
- (D) no progress

Correct Answer : A



Getting Ready for Apprenticeship and Jobs

1). What is the meaning of an entry level job?

- (A) It helps to enter the office
- (B) Junior interior designer
- (C) It is a starting or junior level job
- (D) Security guard

Correct Answer : C

2). What does 'M' stand for in SMART goal?

- (A) Meaningful
- (B) Memorable
- (C) Measurable
- (D) Manageable

Correct Answer : C

3). Information like date of birth, permanent address form a part of one's _____ in the resume.

- (A) Career objectives
- (B) Personal details
- (C) Achievements
- (D) Qualifications

Correct Answer : B

4). NAPS stands for _____ .

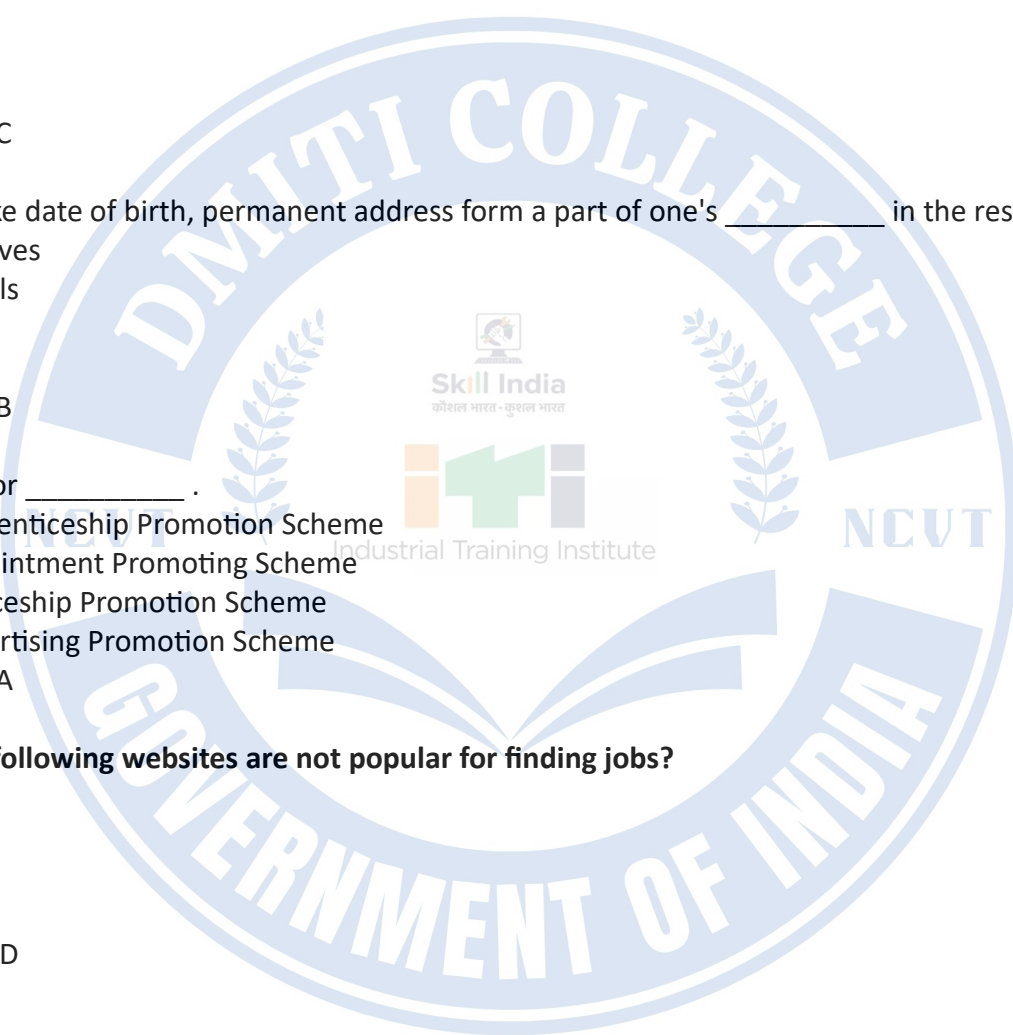
- (A) National Apprenticeship Promotion Scheme
- (B) National Appointment Promoting Scheme
- (C) Non Apprenticeship Promotion Scheme
- (D) National Advertising Promotion Scheme

Correct Answer : A

5). Which of the following websites are not popular for finding jobs?

- (A) LinkedIn.com
- (B) Sheroes.com
- (C) Naukri.com
- (D) **Twitter.com**

Correct Answer : D



Artificial Intelligence

1). Which tool can help make music?

- (A) Beatoven
- (B) Notepad
- (C) Paint
- (D) Gmail

Correct Answer : A

2). How can teachers use AI tools?

- (A) To close shops
- (B) To lock doors
- (C) To ring bells
- (D) To give feedback

Correct Answer : D

3). What should you do with fake profiles?

- (A) Report them
- (B) Ignore them
- (C) Share them
- (D) Save them

Correct Answer : A

4). What should you do with wrong AI output?

- (A) Paste it in book
- (B) Shut the PC
- (C) Call police
- (D) Try better prompt

Correct Answer : D

5). Why is data important for AI?

- (A) AI uses data to learn
- (B) It helps in drawing
- (C) To sleep well
- (D) To clean tools

Correct Answer : A

6). Why is Generative AI special?

- (A) It creates new things
- (B) It breaks items
- (C) It cleans tools
- (D) It draws lines only

Correct Answer : A

7). How does Gemini help users?

- (A) By generating content

(B) By storing food

(C) By building shelves

(D) By boiling water

Correct Answer : A

8). Why should we use follow-up prompts?

- (A) To confuse AI
- (B) To improve response
- (C) To slow AI
- (D) To stop AI

Correct Answer : B

9). Where has AI replaced cashiers?

- (A) Amazon Go
- (B) TV show
- (C) Cooking class
- (D) Bus stop

Correct Answer : A

10). Which prompt is best for job interview practice?

- (A) Can you ask interview questions?
- (B) Tell a joke
- (C) Play song
- (D) Give food

Correct Answer : A

11). Choose a prompt to make a story.

- (A) Say something
- (B) Write a story about a dog
- (C) Hello AI
- (D) I am bored

Correct Answer : B

12). What rule helps avoid harm from AI?

- (A) Use it with care
- (B) Avoid it always
- (C) Shout at it
- (D) Trust blindly

Correct Answer : A

13). Which of the following is AI?

- (A) A wall clock
- (B) A smart assistant

(C) A stapler
(D) A fan
Correct Answer : B

14). What does AI try to do?
(A) Cook food
(B) Build roads
(C) Copy human thinking
(D) Make shoes
Correct Answer : C

15). How does ML improve performance?
(A) By turning off
(B) By sleeping
(C) By guessing
(D) By learning from data
Correct Answer : D

16). Which is created by Generative AI?
(A) Nail cutter
(B) Poem
(C) Paint brush
(D) Fan cover
Correct Answer : B

17). What is a base prompt?
(A) First instruction to AI
(B) A drawing
(C) A note
(D) A box
Correct Answer : A

18). What makes General AI different from other types of AI?
(A) It is slow
(B) It does many tasks
(C) It sleeps
(D) It plays
Correct Answer : B

19). Where can AI spread fake news?
(A) Social media
(B) Offline books
(C) TV screen
(D) Pencil box
Correct Answer : A

20). What should you do if AI spreads lies?
(A) Ignore it
(B) Share it fast
(C) Report it
(D) Print it
Correct Answer : C

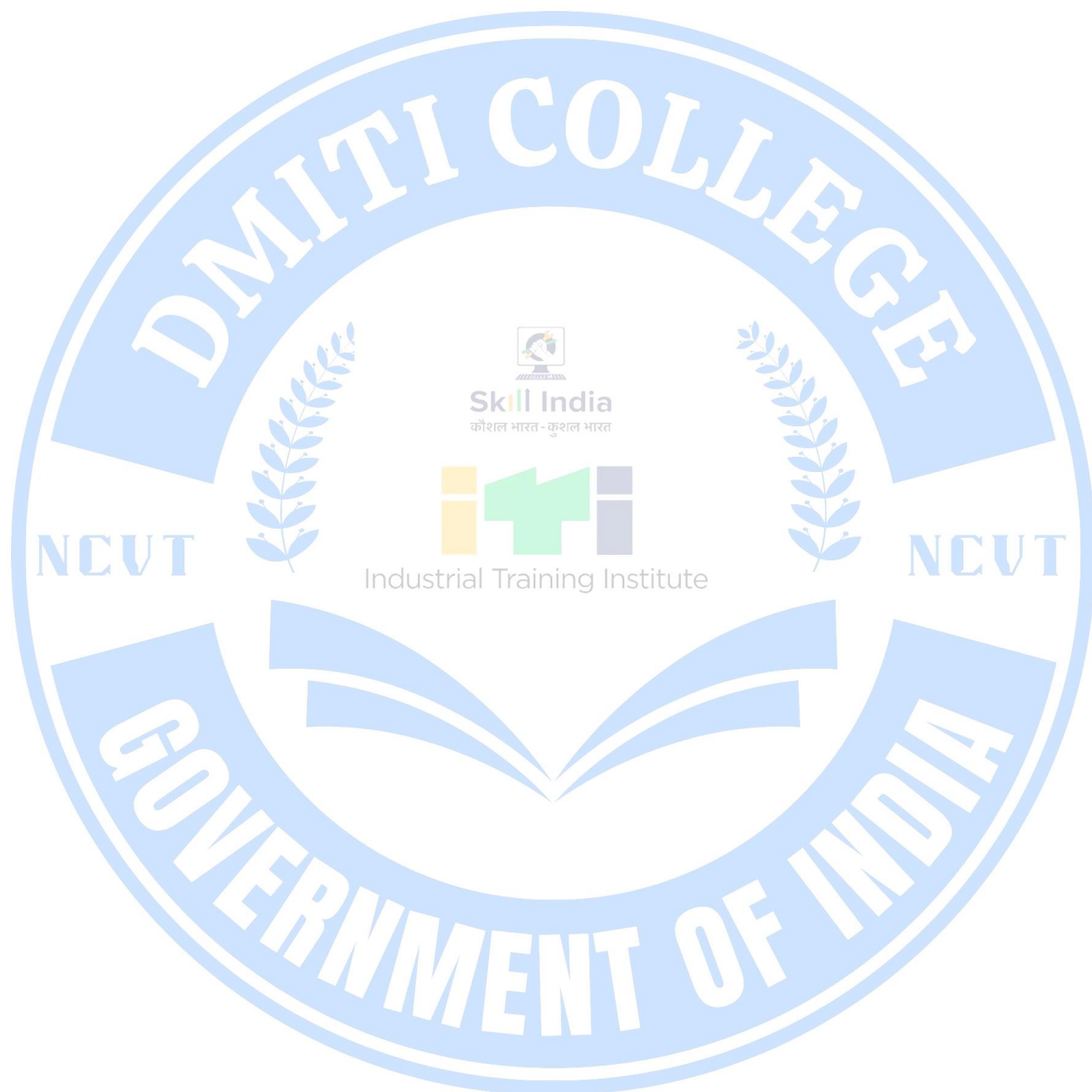
21). Which AI tool can explain grammar?
(A) Notepad
(B) MS Paint
(C) ChatGPT
(D) Recorder
Correct Answer : C

22). What helps YouTube suggest videos?
(A) Paper size
(B) Mouse clicks
(C) Bookmarks
(D) Watch history
Correct Answer : D

23). Choose a responsible AI action.
(A) Creating fake profiles
(B) Cheating in exams
(C) Getting homework help
(D) Spreading wrong news
Correct Answer : C

24). Why does AI need training data?
(A) To learn better
(B) To jump faster
(C) To walk faster
(D) To play better
Correct Answer : A

25). Which of the following is data?
(A) Image
(B) Screwdriver
(C) Chair
(D) Fan
Correct Answer : A



Unit, Fractions

1). What are fundamental units?

- (A) Length, Mass, Volume
- (B) Length, Mass, Time
- (C) Length, Mass, Area
- (D) Length, Pressure, Volume

Correct Answer : B

2). What denotes letter 'M' in MKS system?

- (A) Mile
- (B) Meter
- (C) Millimeter
- (D) Micron

Correct Answer : B

3). How many millimetres are there in 1 inch?

- (A) 2.54 mm
- (B) 25.4 mm
- (C) 24.5 mm
- (D) 2.45 mm

Correct Answer : B

4). Convert decimal 0.000659 to fraction?

(A) $\frac{659}{1000}$

(B) $\frac{659}{10000}$

(C) $\frac{659}{100000}$

(D) $\frac{659}{1000000}$

Correct Answer : D

5). What are the two classifications of system of units?

- (A) British and Metric
- (B) Gravitational and non-gravitational
- (C) Fundamental and derived
- (D) Metric and International

Correct Answer : C



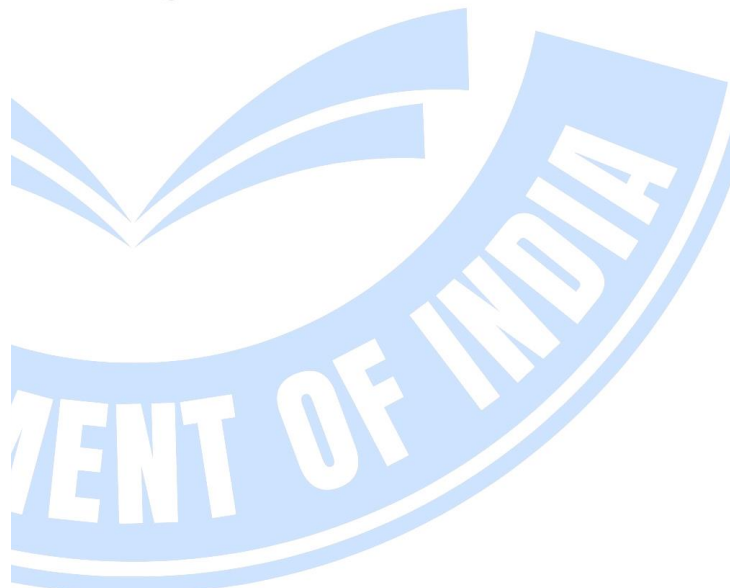
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Square Root, Ratio and Proportion percentage

1). Convert 0.456 decimal fraction into percentage?

- (A) 45.6%
- (B) 0.0456
- (C) 0.456%
- (D) 0.0456%

Correct Answer : A

2). What is the square root of 529?

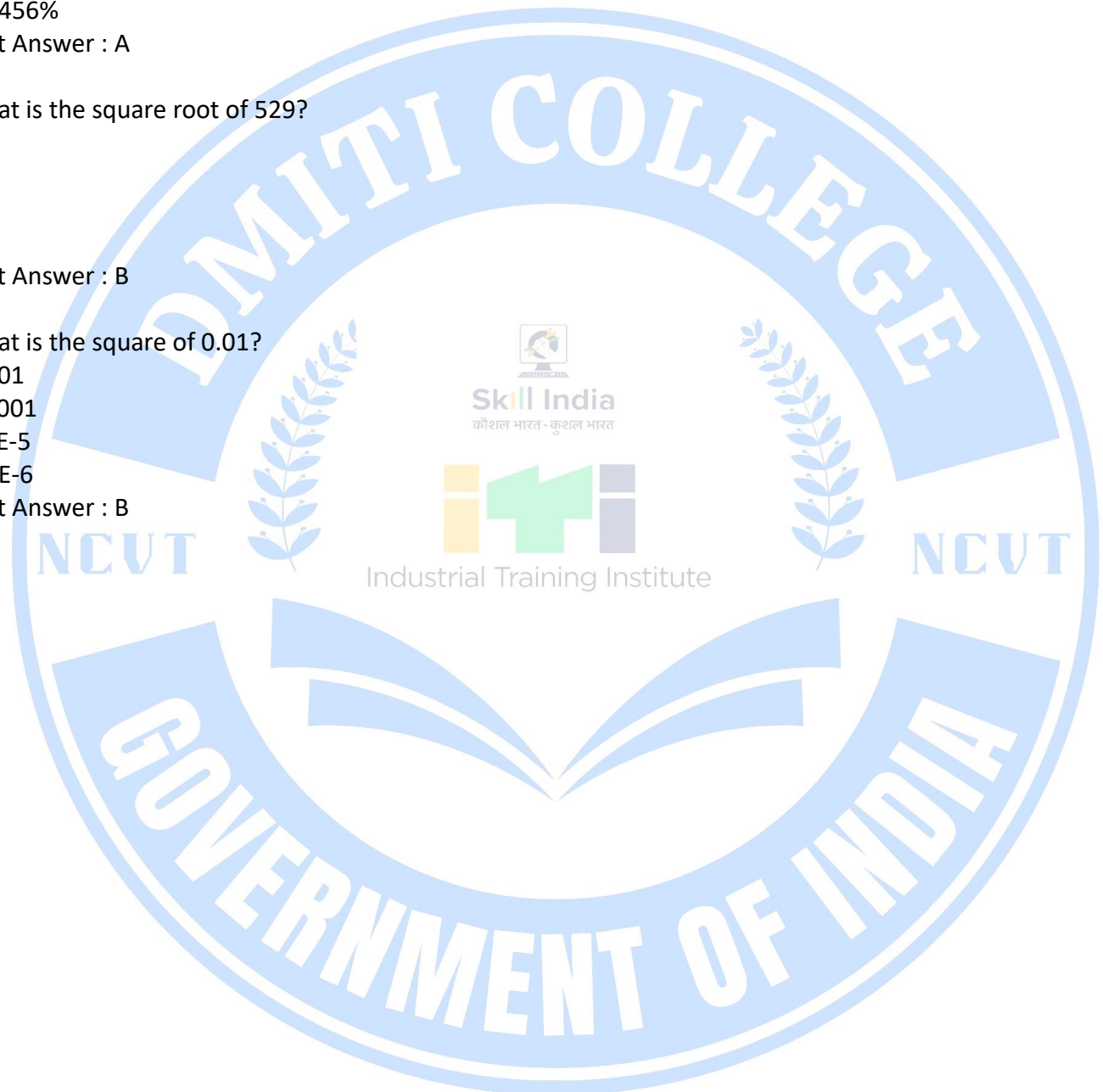
- (A) 13
- (B) 23
- (C) 33
- (D) 43

Correct Answer : B

3). What is the square of 0.01?

- (A) 0.001
- (B) 0.0001
- (C) 1.0E-5
- (D) 1.0E-6

Correct Answer : B

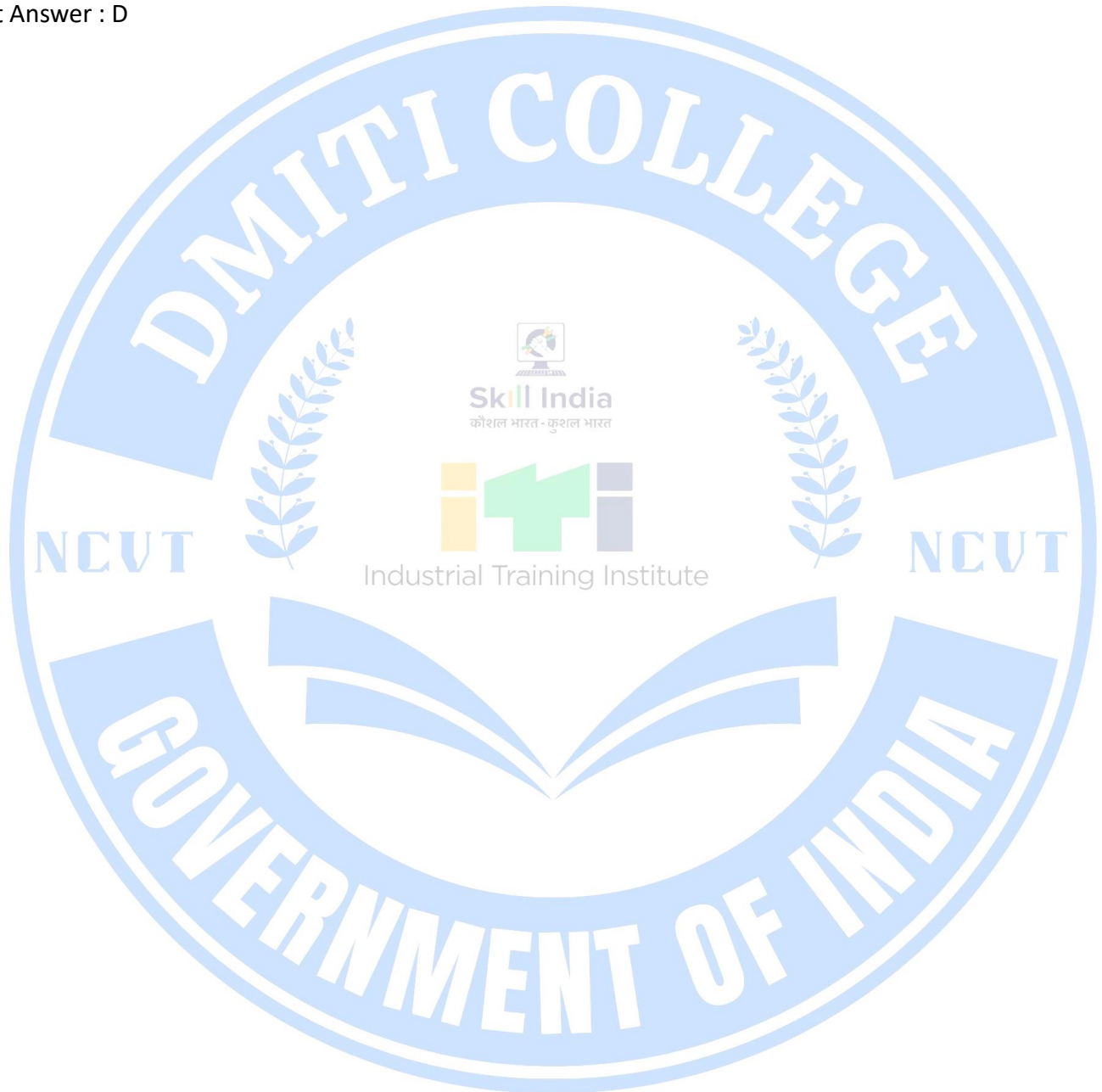


Material Science

1). Which metal contains iron as a major content?

- (A) Brass metal
- (B) Bronze metal
- (C) Zinc
- (D) Ferrous metal

Correct Answer : D



Mass, Weight, Volume and Density

1). What is called mass per unit volume of a substances?

- (A) Mass
- (B) Weight
- (C) Density
- (D) Volume

Correct Answer : C

2). What is termed as the quantity of matter contained in a body?

- (A) Density
- (B) Volume
- (C) Mass
- (D) Specific gravity

Correct Answer : C



Heat and Temperature and Pressure

1). What is the boiling point of water?

- (A) 0°C
- (B) 32°C
- (C) 100°C
- (D) 212°C

Correct Answer : C

2). What is the S.I unit of heat?

- (A) Calorie
- (B) Joule
- (C) Centigrade heat unit
- (D) British thermal unit

Correct Answer : B

3). What is the value for specific heat of water?

- (A) 4
- (B) 3
- (C) 2
- (D) 1

Correct Answer : D



Mensuration

1). What is the perimeter of a rectangle whose length and breadth are 20 cm and 18 cm?

- (A) 56 cm
- (B) 66 cm
- (C) 76 cm
- (D) 86 cm

Correct Answer : C

2). What is the side of a square whose area is 625 mm^2 ?

- (A) 15 mm
- (B) 20 mm
- (C) 25 mm
- (D) 30 mm

Correct Answer : C



Levers and Simple Machines

1). Which is example for third order lever?

- (A) Common balance
- (B) Forceps
- (C) A pair of scissors
- (D) Lime squeezer

Correct Answer : B

2). Which is example for first order lever?

- (A) A wheel barrow
- (B) A pair of scissors
- (C) Fire tongs
- (D) Lime squeezer

Correct Answer : B

3). Which is example for second order lever?

- (A) Common balance
- (B) A pair of scissors
- (C) Bottle opener
- (D) Human forearm

Correct Answer : C



Trigonometry

1). Which is equal to $\sin$?

(A) Opposite side/ Hypotenuse

(B) Hypotenuse /Opposite side

(C) Adjacent side/Hypotenuse

(D) Hypotenuse/Adjacent side

Correct Answer : A

