

PROVISIONAL ANSWER KEY

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Alphacode	A

Question1:-Which of the following statement is/are correct about isometric axes and isometric planes?

- (i) The principle axes of the imaginary cube, when it is in isometric position is known as isometric axes.
- (ii) Three mutually perpendicular planes which are equally inclined to VP or any other plane which is parallel to any of the above planes is

A:-Only (i)

B:-Only (ii)

C:-All of the above (i and ii)

D:-Both (i and ii) are not correct

Correct Answer:- Option-C

Question2:-Which of the following statement is/are correct about Perspective projection?

- (i) A vertical transparent plane on which the perspective view is obtained is known as Picture plane.
- (ii) Perspective projection is the pictorial view of an object as seen by the human eye.
- (iii) The line of intersection of the picture plane and the central plane is known as Ground line.

A:-Only (i)

B:-Only (ii)

C:-All of the above (i, ii and iii)

D:-Only (i and ii)

Correct Answer:- Option-D

Question3:-The points at which the edge of a prism or pyramid penetrates through the second surface is known as

A:-Vertices

B:-Curve of intersection

C:-Critical point

D:-Horizon line

Correct Answer:- Option-A

Question4:-Which of the following method is used for the development of Prisms and Cylinders?

A:-Radial line method

B:-Parallel line method

C:-Zone method

D:-Triangular method

Correct Answer:- Option-B

Question5:-Which of the following statement is/are correct about alloying elements of steel

- (i) Chromium, when added to steel, improves the corrosion resistance, toughness and hardenability of steel.
- (ii) Addition of silicon or alloying with steel improves resistance to high temperature oxidation.
- (iii) Vanadium improves the toughness of steel

A:-Only (i)

B:-All of the above (i, ii and iii)

C:-Only (i and ii)

D:-Only (ii)

Correct Answer:- Option-B

Question6:-Which of the following statement is/are correct about the following alloys?

- (i) Brass is an alloy of copper and zinc.
- (ii) Bronze is basically an alloy of copper, antimony and tin.
- (iii) Babbitt metal is an alloy of lead, tin, copper and antimony.

A:-Only (i and iii)

B:-All of the above (i, ii and iii)

C:-Only (i and ii)

D:-Only (ii and iii)

Correct Answer:- Option-A

Question7:-What is the melting point of Aluminium?

- A:-231°C
- B:-420°C
- C:-1083°C
- D:-660°C

Correct Answer:- Option-D

Question8:-The property of a metal to withstand shock or impact is known as

- A:-Brittleness
- B:-Toughness
- C:-Tenacity
- D:-Elasticity

Correct Answer:- Option-B

Question9:-Which of the following statement is/are correct about the use a capital letter?

- (i) Use a capital letter for the first letter in a sentence.
- (ii) Always use a capital letter for the word:I
- (iii) Use a capital letter for the names of people

- A:-Only (i and iii)
- B:-Only (ii and iii)
- C:-Only (i and ii)
- D:-All of the above (i, ii and iii)

Correct Answer:- Option-D

Question10:-Which of the following statement is/are correct about Homophones?

- (i) It is a word that is pronounced the same as another word but differs in meaning.
- (ii) It is a word that shares same written form as another word but has different meaning.

- A:-Only (i)
- B:-Only (ii)
- C:-Both (i and ii)
- D:-None of the above

Correct Answer:- Option-A

Question11:-What is a word that takes the place of a common noun or a proper noun?

- A:-Noun
- B:-Pronoun
- C:-Articles
- D:-Adjectives

Correct Answer:- Option-B

Question12:-What is a word that connects one thing with another, showing how they are related?

- A:-Conjunctions
- B:-Interjections
- C:-Articles
- D:-Prepositions

Correct Answer:- Option-D

Question13:-Which of the following statement is/are correct about grades of a file?

- (i) A rough file is used for removing rapidly a larger quantity of metal.
- (ii) A bastard file is remove small quantity of material and to give a good finish.
- (iii) A dead smooth file is used to bring the material to accurate size with a high degree of finish.

- A:-Only (i and ii)
- B:-Only (ii and iii)
- C:-Only (i and iii)
- D:-All of the above (i, ii and iii)

Correct Answer:- Option-C

Question14:-Which of the following statement is/are correct about specification of a lathe?

- (i) Swing or maximum diameter that can be rotated over the bed ways.
- (ii) Maximum length of the job that can be held between head stock and tail stock centres.
- (iii) Lead screw diameter and number of threads per inch or pitch in mm.

- A:-Only (i)
- B:-Only (ii)

C:-Only (i and ii)

D:-All of the above (i, ii and iii)

Correct Answer:- Option-D

Question15:-Which one of the following is used for bringing the sheet metal closely together after inserting the rivet in the hole?

A:-Dolly

B:-Rivet set

C:-Snap

D:-Drift

Correct Answer:- Option-B

Question16:-Which one of the following is not a part of diesel engine?

A:-Fuel injector

B:-Air filter

C:-Fuel pump

D:-Spark plug

Correct Answer:- Option-D

Question17:-The difference between the maximum limit of size and the minimum limit of size is known as

A:-Upper deviation

B:-Lower deviation

C:-Tolerance

D:-Actual deviation

Correct Answer:- Option-C

Question18:-Which of the following statement is/are correct about the Table jig?

- (i) Used when it is necessary to locate the piece part from its face.
- (ii) Used to hold work which are to be drilled at right angles to their mounting locators.
- (iii) Ideal for thin or soft workpieces which may bend or warp due to force while machining.

A:-Only (i)

B:-Only (ii)

C:-Only (iii)

D:-All of the above (i, ii and iii)

Correct Answer:- Option-A

Question19:-Calculate the mass in kg of a rectangular steel plate of dimensions 250 × 200 × 20 mm (density of steel = 7.82 kg/cm³)

A:-782.00 kg

B:-0.782 kg

C:-7.82 kg

D:-78.20 kg

Correct Answer:- Option-C

Question20:-Which of the following statement is/are correct about the weight of a body?

- (i) Weight is measure of amount of force acting on mass due to acceleration due to gravity.
- (ii) It does not depend on the position or space.
- (iii) Weight of an object will be zero if gravity is absent.

A:-Only (i and ii)

B:-Only (i and iii)

C:-Only (ii and iii)

D:-All of the above (i, ii and iii)

Correct Answer:- Option-B

Question21:-Which of the following statement is/are correct about the unit of density?

- (i) gr/cm³
- (ii) kg/dm³
- (iii) ton/m³

A:-Only (i and iii)

B:-Only (ii and iii)

C:-Only (i and ii)

D:-All of the above (i, ii and iii)

Correct Answer:- Option-D

Question22:-Which one of the following is the density of water?

A:-1.00 kg/cm³

B:-10.0 gm/cm³

C:-1.00 gm/cm³

D:-10.0 kg/cm²

Correct Answer:- Option-C

Question23:-Which of the following statement is/are correct about oral communication?

- (i) It is quick and direct method.
- (ii) Feedback is immediate, be it praise or criticism.
- (iii) It can be used for documentary evidence.

A:-Only (i and ii)

B:-Only (i and iii)

C:-Both (ii and iii)

D:-All of the above (i, ii and iii)

Correct Answer:- Option-A

Question24:-Which one is the type of listening is basically listening for pleasure?

A:-Comprehensive (Informational) Listening

B:-Critical (Evaluative) Listening

C:-Appreciative (Aesthetic) Listening

D:-Therapeutic (Empathetic) Listening

Correct Answer:- Option-C

Question25:-Which of the following statement is/are correct about Barriers to Listening?

- (i) Listener's bias or prejudice
- (ii) Language difference or accents.
- (iii) Listener's personal attitude.

A:-Only (i and ii)

B:-Only (i and iii)

C:-Only (ii and iii)

D:-All of the above (i, ii and iii)

Correct Answer:- Option-D

Question26:-What makes people take the effort to achieve their goals?

A:-Motivation

B:-Ethics

C:-Quality

D:-Commitment

Correct Answer:- Option-A

Question27:-The stress produced in shaft due to torsional load

A:-Bending stress

B:-Shear stress

C:-Both bending and shear stress

D:-None of above

Correct Answer:- Option-B

Question28:-A key made from cylindrical disc having segmental cross section is known as

A:-Feather key

B:-Gib head key

C:-Woodruff key

D:-Flat saddle key

Correct Answer:- Option-D

Question29:-The coupling used to connect the shafts having lateral mis-alignment is

A:-Universal coupling

B:-Muff coupling

C:-Oldham coupling

D:-Flange coupling

Correct Answer:- Option-C

Question30:-The ratio of eccentricity to the radial clearance in the case of Journal bearing is known as

A:-Clearance ratio

B:-Attitude

C:-Bearing modulus

D:-None of the above

Correct Answer:- Option-B

Question31:-The distance measured on the circumference of the pitch circle from a point of one tooth to the corresponding point on next tooth is known as

A:-Circular pitch

B:-Diametral pitch

C:-Backlash

D:-Module

Correct Answer:- Option-A

Question32:-In a flat belt drive, for maximum power transmission the ratio of centrifugal tension to maximum tension will be

A:- $\frac{1}{3}$

B:- $\frac{2}{3}$

C:-3

D:- $\frac{3}{2}$

Correct Answer:- Option-A

Question33:-The thickness of rim for all sizes of steel pulleys should be

A:-6 mm

B:-7 mm

C:-5 mm

D:-8 mm

Correct Answer:- Option-C

Question34:-ISP stands for

A:-Internet System Provider

B:-Internet Service Protocol

C:-Internet Service Provider

D:-Internet System Protocol

Correct Answer:- Option-C

Question35:-Unit of thermal conductivity is

A:- $\frac{W}{mK}$

B:- $\frac{W}{m^2K}$

C:- $\frac{W}{m^2K^4}$

D:-None of the above

Correct Answer:- Option-A

Question36:-In a non flow process

A:-Kinetic energy will not change

B:-Potential energy will not change

C:-Both potential and kinetic energy will change

D:-Both potential and kinetic energy will not change

Correct Answer:- Option-D

Question37:-The tab used for adding rows and columns in the table in MS Word

A:-Insert

B:-Design

C:-Layout

D:-Page Layout

Correct Answer:- Option-C

Question38:-The key used for Ortho mode on or off in Auto CAD is

A:-F9

B:-F8

C:-F3

D:-F7

Correct Answer:- Option-B

Question39:-The command used for creating a new object which has shape of the object selected, which is parallel to old one

A:-Array

B:-Mirror

C:-Offset

D:-Copy

Correct Answer:- Option-C

Question40:-The command used to join two non parallel lines, a line and arc, circles and poly lines with an arc with specified radius is

A:-Fillet

B:-Chamfer

C:-Trim

D:-Stretch

Correct Answer:- Option-A

Question41:-The command used to select a viewing direction for three dimensional view of a drawing specified by X, Y and Z coordinates is

A:-VDIR

B:-VPOINT

C:-VIEW

D:-VIEWDIR

Correct Answer:- Option-B

Question42:-Which of the following is not a modifying command?

A:-Erase

B:-Copy

C:-Hatch

D:-Array

Correct Answer:- Option-C

Question43:-The button on the mouse which is used for zoom and pan

A:-Right button

B:-Wheel

C:-Left button

D:-All buttons can be used

Correct Answer:- Option-B

Question44:-In how many ways a circle can be drawn in Auto CAD?

A:-5

B:-4

C:-7

D:-6

Correct Answer:- Option-D

Question45:-The command used to display the various properties of 2D and 3D objects is

A:-MASSPROP

B:-VOLPROP

C:-MASSPOINT

D:-VOLPOINT

Correct Answer:- Option-A

Question46:-The command used to draw solids by giving thickness to object

A:-ARRAY

B:-EXTRUDE

C:-UNION

D:-PRESSPULL

Correct Answer:- Option-B

Question47:-The angle between the edges of a cube in isometric projection is

A:-120°

B:-30°

C:-60°

D:-180°

Correct Answer:- Option-A

Question48:-The symbol given below shows



A:-90° flanged elbow

B:-90° screwed elbow

C:-90° welded elbow

D:-All of the above

Correct Answer:- Option-C

Question49:-Which of the following symbol is used for screwed coupling?



A:-



B:-



C:-



D:-

Correct Answer:- Option-A

Question50:-In isometric view circle appears as

- A:-Circle
- B:-Ellipse
- C:-Both Circle and Ellipse
- D:-None of the above

Correct Answer:- Option-B

Question51:-In which year Auto CAD introduced?

- A:-1984
- B:-1985
- C:-1982
- D:-1983

Correct Answer:- Option-C

Question52:-|| the symbol shows

- A:-Square lap weld
- B:-Square butt weld
- C:-Single fillet weld
- D:-Single butt weld

Correct Answer:- Option-B

Question53:-Expanded form of UCS in Auto CAD is

- A:-Universal Coordinate System
- B:-Unit Coordinate System
- C:-User Coordinate System
- D:-Union Coordinate System

Correct Answer:- Option-C

Question54:-Which of the following is an output device?

- A:-Printer
- B:-Keyboard
- C:-Mouse
- D:-Scanner

Correct Answer:- Option-A

Question55:-The command used to cut off any part of the object in Auto CAD is

- A:-Erase
- B:-Cut
- C:-Trim
- D:-Break

Correct Answer:- Option-C

Question56:-Which of the following command is used for creating a solid sphere?

- A:-Extrude
- B:-Revolve
- C:-Loft
- D:-Sweep

Correct Answer:- Option-B

Question57:-The tool used to measure the dimensions of a 3-D sketch in Auto Desk Inventor is

- A:-Loop
- B:-Manage
- C:-Inspect
- D:-Annotate

Correct Answer:- Option-C

Question58:-A cylinder can be created by using

- A:-Extrude command
- B:-Revolve command
- C:-Both 1 and 2
- D:-None of the above

Correct Answer:- Option-C

Question59:-The command used for adding dimensions in orthographic projections in Auto Desk Inventor is

- A:-Manage
- B:-Annotate
- C:-Inspect
- D:-Tools

Correct Answer:- Option-B

Question60:-Which of the following is 3-D modelling software?

- A:-Solid works
- B:-Catia
- C:-Auto desk inventor
- D:-All the above

Correct Answer:- Option-D

Question61:-A fitting that connects two pipes placed at right angles to each other is a

A:-Lateral fitting

B:-45° elbow

C:-90° elbow

D:-90° connector

Correct Answer:- Option-C

Question62:-What does WCS stands for?

A:-Wrong CAD Setting

B:-World Coordinate Setting

C:-Western CAD Setting

D:-Worldwide Coordinate Sectors

Correct Answer:- Option-B

Question63:-Status bar do not contain

A:-Erase

B:-Snap

C:-Grid

D:-Polar

Correct Answer:- Option-A

Question64:- _____ is the minimum radius of the cam.

A:-Flank

B:-Base circle

C:-Tip

D:-Nose

Correct Answer:- Option-B

Question65:-Remote control valve is a kind of

A:-Gate valve

B:-Globe valve

C:-Needle valve

D:-Butterfly valve

Correct Answer:- Option-D

Question66:-The impurities are removed from boiler with the help of

A:-Safety valve

B:-Blow off cock

C:-Stop valve

D:-Fusible plug

Correct Answer:- Option-B

Question67:-A device used to heat feed water by utilizing the heat in the exhaust flue gases before leaving through the chimney, is known as

A:-Super heater

B:-Blow off cock

C:-Stop valve

D:-Economiser

Correct Answer:- Option-D

Question68:- _____ is used to maintain a constant safe working pressure inside the boiler.

A:-Lever safety valve

B:-Blow off cock

C:-Non return valve

D:-Shut off valve

Correct Answer:- Option-A

Question69:-A ram cylinder can only have _____ in one direction.

A:-Movement

B:-Force

C:-Rotation

D:-Stop

Correct Answer:- Option-B

Question70:-R stands for in FRL unit is

A:-Reservoir

B:-Regulator

C:-Recheck valve

D:-Reassemble

Correct Answer:- Option-B

Question71:-A die in which more than one cutting operation per stroke is done, is known as

A:-Blanking die

B:-Compound die

C:-Progressive die

D:-Piercing die

Correct Answer:- Option-B

Question72:-Press tool is used in mass production of

A:-Nails

B:-Nuts

C:-Bolts

D:-Sheet metal components

Correct Answer:- Option-D

Question73:-Press tool can be categorized by

A:-Type of operation

B:-Size

C:-Shape

D:-Weight

Correct Answer:- Option-A

Question74:-A device, which is used to remove the piece-part or material from around the punch, is known as

A:-Die stop

B:-Nest

C:-Shedder

D:-Stripper

Correct Answer:- Option-D

Question75:-If the circumference of the square is 16 cm then the area of the same is _____ cm^2 .

A:-16

B:-32

C:-64

D:-25

Correct Answer:- Option-A

Question76:-The area of a square whose diagonal is 20 cm long

A:-200 cm^2

B:-225 cm^2

C:-250 cm^2

D:-150 cm^2

Correct Answer:- Option-A

Question77:-The circumference of a circle is reduced at 50%, what will be the reduction in area?

A:-25%

B:-40%

C:-50%

D:-75%

Correct Answer:- Option-A

Question78:-Example of second order lever

A:-Claw hammer

B:-A pair of scissors

C:-Handle of tube well pump

D:-A wheel barrow

Correct Answer:- Option-D

Question79:-The ratio of distance moved by effort to the distance moved by load is termed as

A:-Effort

B:-Load

C:-Velocity ratio

D:-Efficiency

Correct Answer:- Option-C

Question80:-A load 1200 kg is lifted using a simple machine having velocity ratio of 5. Find out the efficiency of machine, if effort applied is 300 kg.

A:-60%

B:-70%

C:-75%

D:-80%

Correct Answer:- Option-D

Question81:-W in SWOT stands for

A:-Wealth

B:-War

C:-Weakness

D:-Willingness

Correct Answer:- Option-C

Question82:-The process of making the slip gauges adhere is called

A:-Adhesion

B:-Assembling

C:-Sliding

D:-Wringing

Correct Answer:- Option-D

Question83:-A sine bar is used to measure

A:-External tapers

B:-Surface roughness

C:-Internal tapers

D:-Gear profiles

Correct Answer:- Option-A

Question84:-The point in the body where all mass of the body is concentrated is called

A:-Moment of inertia

B:-Centre of gravity

C:-Centre of mass

D:-Null point

Correct Answer:- Option-B

Question85:-A truck carrying 3 tonnes load is moving on a metallic road. If the co-efficient of friction is 0.25. Calculate the force of friction?

A:-75 kg

B:-0.75 kg

C:-750 kg

D:-7.5 kg

Correct Answer:- Option-C

Question86:-The heat treatment process used to make ferrous metal non-brittle

- A:-Hardening
- B:-Tempering
- C:-Nitriding
- D:-Carburizing

Correct Answer:- Option-B

Question87:-The centre of gravity of a circular solid cone of height "h" lies at the following distance from the base

- A:-h/2
- B:-h/3
- C:-h/4
- D:-h/6

Correct Answer:- Option-C

Question88:-If $x=2$; $y=-3$; $z=4$. Find the value of $(4x^2 + 2y^2 - 4z + xyz)$.

- A:-27
- B:-54
- C:-54
- D:-72

Correct Answer:- Option-C

Question89:-The sum of three consecutive numbers is 42. What are the numbers?

- A:-10, 10, 22
- B:-13, 14, 15
- C:-20, 20, 2
- D:-15, 15, 12

Correct Answer:- Option-B

Question90:-Which heat treatment process is used to modify the grain structure?

- A:-Annealing
- B:-Normalizing
- C:-Tempering
- D:-Hardening

Correct Answer:- Option-B

Question91:-The property which enables a material to spring back to its original shape and size after the removal of load is called?

- A:-Elasticity
- B:-Plasticity
- C:-Malleability
- D:-Ductility

Correct Answer:- Option-A

Question92:-When a worker contributes to bring the best output by using the available resources, the worker is

- A:-Selfish
- B:-Ineffective
- C:-Bad
- D:-Productive

Correct Answer:- Option-D

Question93:-Rule of conduct or procedure established by authority is called

- A:-Procedure
- B:-Law
- C:-Act
- D:-Policy

Correct Answer:- Option-B

Question94:-Quality is about producing products without

- A:-Price
- B:-Defects
- C:-Design
- D:-Standard

Correct Answer:- Option-B

Question95:-Quality consciousness help to deliver _____ to yourself and those around you.

- A:-value
- B:-products
- C:-profit
- D:-time

Correct Answer:- Option-A

Question96:-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:- Option-B

Question97:-While probing your customer your main focus should be on your

- A:-Customer needs
- B:-Sales target
- C:-Forcing customers
- D:-Body languages

Correct Answer:- Option-A

Question98:-By selling a bicycle for Rs. 2850, a shopkeeper gains 14%. If the profit is reduced to 8%, then the selling price will be

- A:-2600
- B:-2700
- C:-2800
- D:-3000

Correct Answer:- Option-B

Question99:-The market price of shirt and trousers are in the ratio of 1:2. The shopkeeper gives 40% discount on the shirt. If the total discount in the set of the shirt and trousers is 30%, the discount offered on the trousers is

- A:-15%
- B:-20%
- C:-25%
- D:-30%

Correct Answer:- Option-C

Question100:-What purpose is served by grouting?

- A:-Fill gaps
- B:-Increase water flow
- C:-Soften foundation
- D:-Break foundation

Correct Answer:- Option-A