

## **PROVISIONAL ANSWER KEY**

Question 22/2026/OL

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Exam: Workshop Attender Draftsman Civil

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Department Industrial Training

Question1:-A French curve is used for

A:-Drawing circles

B:-Drawing lines

C:-Drawing irregular curves

D:-Both (1) and (2)

Correct Answer:- Option-C

Question2:-What is the designation of 420 x 594 mm size paper as per BIS?

A:-A1

B:-A2

C:-A3

D:-A4

Correct Answer:- Option-B

Question3:-What is the description of E1 hidden outlines?

A:-Dashed Thick

B:-Dashed Thin

C:-Hidden outlines

D:-Hidden edges

Correct Answer:- Option-A

Question4:-In a drawing letters and numerals are designated by their

A:-Width

B:-Height

C:-Thickness

D:-None of the above

Correct Answer:- Option-B

Question5:-How the unidirectional system dimensions are placed in engineering drawing to read?

A:-From top of the drawing

B:-From right side of the drawing

C:-From left side of the drawing

D:-From bottom of the drawing

Correct Answer:- Option-D

Question6:-Diagonal scale is constructed to measure upto \_\_\_\_\_ units

A:-1 Units

B:-2 Units

C:-3 Units

D:-Only angles

Correct Answer:- Option-C

Question7:-In isometric projection, the angle between the axes is

A:-30 degree

B:-45 degree

C:-90 degree

D:-120 degree

Correct Answer:- Option-D

Question8:-Eccentricity of ellipse is

A:-Zero

B:-Less than 1

C:-Equal to 1

D:-Greater than 1

Correct Answer:- Option-B

Question9:-Providing good outside views from rooms refers to

A:-Grouping

B:-Prospect

C:-Circulation

D:-Orientation

Correct Answer:- Option-B

Question10:-What percentage of plinth area is provided for horizontal circulation area?

A:-5 to 10%

B:-10 to 15%

C:-15 to 20%

D:-20 to 25%

Correct Answer:- Option-D

Question11:-Group E buildings are classified as?

A:-Business building

B:-Educational building

C:-Storage building

D:-Assembly building

Correct Answer:- Option-A

Question12:-Built up covered area measured at the floor level is

A:-Circulation area

B:-Carpet area

C:-Plinth area

D:-Floor area

Correct Answer:- Option-C

Question13:-The multiplying factor applied in painting work for fully glazed door is

A:-2 1/4 times one surface area for both sides

B:-1 times one surface area for both sides

C:-2 times one surface area for both sides

D:-3 times one surface area for both sides

Correct Answer:- Option-B

Question14:-The percentage added for contractors profit while preparing abstract estimate is

A:-5%

B:-10%

C:-15%

D:-20%

Correct Answer:- Option-B

Question15:-Which is the accurate estimate prepared by working out quantities for each items of work

A:-Plinth area estimate

B:-Cube rate estimate

C:-Revised estimate

D:-Detailed estimate

Correct Answer:- Option-D

Question16:-While taking quantity in a masonry work no deduction for opening, bearing etc...upto the area

A:-1000 cm<sup>2</sup>

B:-100 cm<sup>2</sup>

C:-50 cm<sup>2</sup>

D:-500 cm<sup>2</sup>

Correct Answer:- Option-A

Question17:-The carpet area of a habitable room shall not be less than

- A:-8.5 m<sup>2</sup>
- B:-7.5 m<sup>2</sup>
- C:-9.5 m<sup>2</sup>
- D:-10.5 m<sup>2</sup>

Correct Answer:- Option-C

Question18:-The site plan shall be drawn to a scale of not less than

- A:-1:100
- B:-1:200
- C:-1:300
- D:-1:400

Correct Answer:- Option-D

Question19:-Which is the unit of measurement of honey comb brick wall

- A:-m<sup>3</sup>
- B:-m<sup>2</sup>
- C:-dm<sup>3</sup>
- D:-dm<sup>2</sup>

Correct Answer:- Option-B

Question20:-The value at the end of the utility period without being dismantled

- A:-Salvage value
- B:-Scarp value
- C:-Market value
- D:-Book value

Correct Answer:- Option-A

Question21:-How much percentage of alumina should contain in a good brick earth

- A:-35-50
- B:-20-30
- C:-1-2
- D:-10-20

Correct Answer:- Option-B

Question22:-The colour of ordinary Portland cement should be

- A:-Light blue
- B:-Greenish Grey
- C:-Bluesh Grey

D:-Dark Grey

Correct Answer:- Option-B

Question23:-In the following which is the function of sand

A:-It increase the density of mortar

B:-On drying it prevents the cracks in the mortar

C:-It helps in early setting of mortar

D:-All of the above

Correct Answer:- Option-D

Question24:-In following which is a retarder

A:-Calcium chloride

B:-Lime

C:-Ammonium chloride

D:-Alumina

Correct Answer:- Option-C

Question25:-Which is the following is the natural defect in the timber

A:-Shakes

B:-Dry rot

C:-Collapse

D:-Honey combing

Correct Answer:- Option-A

Question26:-The most effective process of repairing concrete work which has damaged due to inferior work

A:-Crazing

B:-Freezing

C:-Guniting

D:-Pre stressing

Correct Answer:- Option-C

Question27:-The mortar having bulk density of 15 KN/cubic mm or more are known

A:-Heavy mortar

B:-Light mortar

C:-Gauged mortar

D:-Surkhi mortar

Correct Answer:- Option-A

Question28:-A fine earthenware which is white thin and semi transparent

A:-Stoneware

B:-Porcelain

C:-Tera-cotta

D:-Earthenware

Correct Answer:- Option-B

Question29:-A solid substance is a fine state of division and it forms the bulk of pain

A:-Drier

B:-Solvent

C:-Vehicle

D:-Base

Correct Answer:- Option-D

Question30:-In the following which is the non-ferrous metal

A:-Pig iron

B:-Copper

C:-Lead

D:-Zinc

Correct Answer:- Option-A

Question31:-What is the proportion of M15 grade concrete

A:-1:4:8

B:-1:5:10

C:-1:1:2

D:-1:2:4

Correct Answer:- Option-D

Question32:-The slump test is used for determining

A:-Work ability

B:-Water cement ratio

C:-Fineness

D:-Soundness

Correct Answer:- Option-A

Question33:-A curved handrail fitting used to smoothly transition the hand rails height and angle

A:-Winder

B:-Gooseneck

C:-Newel

D:-Cornice

Correct Answer:- Option-B

Question34:-The lower edges of the sloping roof are called

A:-Eaves

B:-Gable

C:-Valley

D:-Hip

Correct Answer:- Option-A

Question35:-A series of arches with intermediate supports is known as

A:-Arcade

B:-Bressumer

C:-Arch series

D:-Archase

Correct Answer:- Option-A

Question36:-A course of stone provided immediately below the cornice is called

A:-Quoin

B:-Blocking course

C:-Coping

D:-Frieze

Correct Answer:- Option-D

Question37:-Materials often used for damp proofing is

A:-Sodium silicate

B:-Silica gel

C:-Bitumen

D:-Glass wool

Correct Answer:- Option-C

Question38:-The bearing capacity of a water logged soil can be improved by

A:-Compaction

B:-Drainage

C:-Grouting

D:-Probing

Correct Answer:- Option-B

Question39:-When a defective foundation is to be replaced the temporary structure adopted to support the building is

A:-Scaffolding

B:-Timbering

C:-Shoring

D:-Underpinning

Correct Answer:- Option-D

Question40:-The length of a 45° crank is

A:-0.42 D

B:-9 D

C:-2 D

D:-45 D

Correct Answer:- Option-A

Question41:-The process of making permanent connection between two metal parts by heating them to molten state without application of any mechanical pressure is

A:-Bolted joint

B:-Rivetting

C:-Welding

D:-All of these

Correct Answer:- Option-C

Question42:-The sloped underneath surface of a flight is called

A:-Landing

B:-Nosing

C:-Baluster

D:-Soffit

Correct Answer:- Option-D

Question43:-Which one of the following is a tension member

A:-Principal rafter

B:-King post

C:-Strut

D:-Common rafter

Correct Answer:- Option-B

Question44:-The type of bond in which the bricks are laid in courses inclined at 45° in two directions from center

A:-Herring bone bond

B:-Garden wall bond

C:-Monk bond

D:-Diagonal bond

Correct Answer:- Option-A

Question45:-Which of the following is an example of three centered arch

A:-Venetian arch

B:-Lancet arch

C:-Pointed arch

D:-Elliptical arch

Correct Answer:- Option-D

Question46:-The depth of rebate is

A:-16 mm-20 mm

B:-6 mm- 8 mm

C:-12 mm-15 mm

D:-5 mm-10 mm

Correct Answer:- Option-C

Question47:-The slump desirable for footings and foundation is

A:-50-100 mm

B:-0-50 mm

C:-75-125 mm

D:-25-75 mm

Correct Answer:- Option-A

Question48:-Usually the crank is provided at a distance of \_\_\_\_\_ from the support

A:-L/2-L/3

B:-30 cm-40 cm

C:-L/5 - L/7

D:-L/10 - L/20

Correct Answer:- Option-C

Question49:-The vertical window provided on a sloped roof

A:-Sky light

B:-Dormer window

C:-Bay window

D:-Clerestorey window

Correct Answer:- Option-B

Question50:-An intermediate floor between two floors is

A:-Basement floor

B:-Cellar

C:-First floor

D:-Mezzanine floor

Correct Answer:- Option-D

Question51:-The cover for slab is

A:-10 mm

B:-25 mm

C:-20 mm

D:-50 mm

Correct Answer:- Option-A

Question52:-The ratio of M5 concrete is

A:-1:2:4

B:-1:3:6

C:-1:5:10

D:-1:4:8

Correct Answer:- Option-C

Question53:-A machine that transforms rotational energy from a fluid that is picked by a rotor system into usable work or energy

A:-Turbine

B:-Generator

C:-Gearbox

D:-Anemometer

Correct Answer:- Option-A

Question54:-Hydro power is obtained from the generators coupled to water turbines which convert the hydraulic energy in to

A:-Potential energy

B:-Light energy

C:-Kinetic energy

D:-Mechanical energy

Correct Answer:- Option-D

Question55:-A structure constructed on a channel to effect a sudden change in the bed level of the channel is called

A:-Canal fall

B:-Cross regulator

C:-Head regulator

D:-Off taking channel

Correct Answer:- Option-A

Question56:-When seepage water is sufficient for the growth of the crop and if no additional surface watering is necessary such detention dam is called

A:-Debris dam

B:-Water spread dam

C:-Non over flow dam

D:-Diversion dam

Correct Answer:- Option-B

Question57:-Which irrigation method water is supplied to lower level by the action

of gravity

- A:-Lift
- B:-Sprinkler
- C:-Flow
- D:-Subsurface

Correct Answer:- Option-C

Question58:-The name of first watering before sowing the crop is called

- A:-Paleo
- B:-Duty
- C:-Delta
- D:-Kore watering

Correct Answer:- Option-A

Question59:-Which segment of GPS consist of satellite

- A:-Space
- B:-Control
- C:-User
- D:-Navigation

Correct Answer:- Option-A

Question60:-Which instrument is a combination of EDM, electronic theodolite and microprocessor

- A:-Tangential theodolite
- B:-Total station
- C:-GPS
- D:-Tacheometer

Correct Answer:- Option-B

Question61:-Which type is most common total stations used now a days

- A:-Manual total stations
- B:-Semi automatic total station
- C:-Automatic total stations
- D:-None of these

Correct Answer:- Option-C

Question62:-What is the name of measurement for distances taken to a prism on reflecting foil most accurate

- A:-Rapid measurement
- B:-Tracking measurement
- C:-Angle measurement

D:-Precise measurement

Correct Answer:- Option-D

Question63:-Which is an application of GPS for visually impaired

A:-MOBIC

B:-GIS

C:-Drishti

D:-Navigation

Correct Answer:- Option-A

Question64:-What is the length of a surveyor's chain

A:-33 Ft

B:-100 Ft

C:-66 Ft

D:-30 m

Correct Answer:- Option-C

Question65:-The principles of chain surveying is

A:-Triangulation

B:-Traversing

C:-Radiation

D:-Resection

Correct Answer:- Option-A

Question66:-The book in which chain measurements are entered is called the field book. The size of field book is

A:-12 cm  $\times$  22 cm

B:-20 m  $\times$  12 cm

C:-20 cm  $\times$  10 cm

D:-20 cm  $\times$  12 cm

Correct Answer:- Option-D

Question67:-The direction of a line relative to the given meridian is called

A:-Dip

B:-Declination

C:-Angle

D:-Bearing

Correct Answer:- Option-D

Question68:-Plane tabling is which method of surveying

A:-Graphical

B:-Analytical

C:-Mathematical

D:-Ranging

Correct Answer:- Option-A

Question69:-A closed contour line with one or more higher ones inside it represents a

A:-Pond

B:-Hill

C:-Valley

D:-Ridge

Correct Answer:- Option-B

Question70:-The process of turning the telescope in horizontal plane is called

A:-Centring

B:-Transiting

C:-Swinging

D:-All of the above

Correct Answer:- Option-C

Question71:-The least count of levelling staff is

A:-5 m

B:-5 cm

C:-5 mm

D:-0.5 mm

Correct Answer:- Option-C

Question72:-Which methods generally adopted for measuring the volume

A:-From cross-sections

B:-From spot levels

C:-From contours

D:-All of the above

Correct Answer:- Option-D

Question73:-Which of the following is not a basic AUTOCAD command for drawing?

A:-Line

B:-Circle

C:-Delete

D:-Rectangle

Correct Answer:- Option-C

Question74:-Which function key is used to cycle through object snaps in AUTOCAD?

A:-F1

B:-F3

C:-F5

D:-F7

Correct Answer:- Option-B

Question75:-Consider the following statements about AUTOCAD Shortcuts:

- (i) Ctrl+Z is used for undo
- (ii) Ctrl+Y is used for Redo
- (iii) Ctrl+Shift+C is used for copying objects

Which of the following options is correct?

A:-Only (i)

B:-Both (i and ii)

C:-Both (ii and iii)

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

Correct Answer:- Option-D

Question76:-In AUTOCAD, which tab is used to set up the paper size and orientation for printing?

A:-Model

B:-Layout

C:-Home

D:-Insert

Correct Answer:- Option-B

Question77:-Which AUTOCAD command allows you to create a 3D solid by revolving a 2D profile around an axis?

A:-EXTRUDE

B:-REVOLVE

C:-SWEEP

D:-LOFT

Correct Answer:- Option-B

Question78:-In AUTOCAD, which command is used to set the scale, paper size and plot style before printing a drawing?

A:-PLOT

B:-PRINT

C:-PAGESETUP

D:-EXPORT

Correct Answer:- Option-C

Question79:-Which command is used to create a continuous sequence of connected lines or arcs in AutoCAD?

A:-POLYLINE

B:-LINE

C:-ARC

D:-RECTANGLE

Correct Answer:- Option-A

Question80:-In AUTOCAD, which command is used to create a 3D solid by sweeping a 2D profile along a path?

A:-REVOLVE

B:-SWEEP

C:-EXTRUDE

D:-UNION

Correct Answer:- Option-B

Question81:-Which of the following is NOT a simple machine?

A:-Lever

B:-Pulley

C:-Gear

D:-Wedge

Correct Answer:- Option-C

Question82:-The SI unit of work is :

A:-Watt

B:-Newton

C:-Joule

D:-Meter

Correct Answer:- Option-C

Question83:-Which of the following is the correct formula for stress?

A:-Force/Area

B:-Area/Force

C:-Force  $\times$  Area

D:-Force/Volume

Correct Answer:- Option-A

Question84:-Consider the following statements about the perimeter of a rectangle:

(i) The perimeter is calculated by adding all four sides

(ii) The perimeter is calculated by multiplying length and width

(iii) The perimeter is calculated by twice the sum of length and width

Which of the following options is correct?

A:-Only (i)

B:-Only (ii)

C:-Only (iii)

D:-Both (i and iii)

Correct Answer:- Option-D

Question85:-Consider the following statements about trigonometric ratios in a right-angled triangle:

- (i) Cosec ( $\theta$ ) is the reciprocal of sin ( $\theta$ )
- (ii) sec ( $\theta$ ) is the reciprocal of cos ( $\theta$ )
- (iii) Cot ( $\theta$ ) is the reciprocal of tan ( $\theta$ )

Which of the following options is correct?

A:-Only (i)

B:-Both (i and ii)

C:-Both (ii and iii)

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

Correct Answer:- Option-D

Question86:-Consider the following statements about power and Energy :

- (i) Power is the rate at which work is done
- (ii) Energy is the capacity to do work
- (iii) Power and energy have the same SI unit.

Which of the following options is correct?

A:-Only (i)

B:-Only (ii)

C:-Both (i and ii)

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

Correct Answer:- Option-C

Question87:-Who give the first scientific thinking in highway construction which became the foundation of modern roads?

A:-John metcalf

B:-Thomas telford

C:-John Maccadam

D:-Pierre Tresaguet

Correct Answer:- Option-C

Question88:-The city roads which are primarily for through traffic on a continuous route with a high level traffic?

A:-Arterial streets

B:-Collector streets

C:-Express way

D:-Local streets

Correct Answer:- Option-A

Question89:-The motor vehicle act was inacted in?

A:-1948

B:-1939

C:-1938

D:-1930

Correct Answer:- Option-B

Question90:-The longitudinal movement of rail is

A:-Warping

B:-Hogging

C:-Sagging

D:-Creep

Correct Answer:- Option-D

Question91:-The rail section is designated by its

A:-Total weight

B:-Total length

C:-Weight per metre length

D:-Cross sectional area

Correct Answer:- Option-C

Question92:-Sleeper density is

A:-The weight of sleeper per length

B:-The number of sleeper per rail length

C:-The number of sleeper per km length

D:-None of these

Correct Answer:- Option-B

Question93:-The sleepers which satisfy all of the requirements and are suitable for track circuiting are

A:-Steel sleeper

B:-RCC sleeper

C:-Wooden sleeper

D:-Cast iron sleeper

Correct Answer:- Option-C

Question94:-For which type of wing wall the splay is 90 degree?

A:-Splayed wing wall

B:-Return wing wall

C:-Straight wing wall

D:-None of the above

Correct Answer:- Option-B

Question95:-The detention time for an ordinary plain sedimentation tank is

A:-1 to 2 hours

B:-2 to 4 hours

C:-4 to 8 hours

D:-16-24 hours

Correct Answer:- Option-C

Question96:-Which method is adopted for removing bushes, branches etc from water?

A:-Coagulation

B:-Filtration

C:-Sedimentation

D:-Screening

Correct Answer:- Option-D

Question97:-The suitable layout of a distribution system for well planned cities

A:-Ring system

B:-Dead end system

C:-Radial system

D:-Grid iron system

Correct Answer:- Option-A

Question98:-In which of the following method different types of refuses are collected, carried and disposed off separately?

A:-Water carriage system

B:-Conservancy system

C:-Combined system

D:-None of these

Correct Answer:- Option-B

Question99:-Manholes are provided at every

A:-Bent or junction

B:-Change in gradient

C:-Change of diameter

D:-All of the above

Correct Answer:- Option-D

Question100:-The sludge digestion process in a septic tank is

A:-Aerobic

B:-Anaerobic

C:-Facultative

D:-Either (1) and (2)

Correct Answer:- Option-B