

## FINAL ANSWER KEY

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Exam:	Workshop Attender Draftsman Civil
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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 × 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-B

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:-Bluish 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  $45^\circ$  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  $45^\circ$  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:- **Question Cancelled**

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 x 22 cm

B:-20 m × 12 cm

C:-20 cm × 10 cm

D:-20 cm × 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)  $\operatorname{Cosec}(\theta)$  is the reciprocal of  $\sin(\theta)$
- (ii)  $\sec(\theta)$  is the reciprocal of  $\cos(\theta)$
- (iii)  $\operatorname{Cot}(\theta)$  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