

BHEL Artisan

**Previous Year Paper
(Fitter)
08 Oct, 2025**



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Adv. 04/2025



BHARAT HEAVY ELECTRICALS LIMITED
ARTISAN RECRUITMENT - 2025

Participant ID	
Participant Name	
Test Center Name	
Test Date	08/10/2025
Test Time	2:00 PM - 3:30 PM
Subject	Fitter

Section : Trade Theory

Q.1 A sensitive or bench drilling machine has ____ speed.

- Ans ☒ A. 100 rpm
- ☒ B. 2000 to 3000 rpm
- ☒ C. 800 to 900 rpm
- ☒ D. 4000 rpm

Question ID : 4410091300216
Option 1 ID : 4410095133192
Option 2 ID : 4410095133191
Option 3 ID : 4410095133190
Option 4 ID : 4410095133193
Status : Not Answered
Chosen Option : --

Q.2 Which of the following is a common cause of assembly failure?

- Ans ☒ A. Use of specified grade fasteners
- ☒ B. Correct lubrication of moving parts
- ☒ C. Bolts tightened below required torque
- ☒ D. Proper alignment of mating shafts

Question ID : 4410091284322
Option 1 ID : 4410095068878
Option 2 ID : 4410095068876
Option 3 ID : 4410095068875
Option 4 ID : 4410095068877
Status : Answered
Chosen Option : C

Q.3 Drill holding devices used in drilling are:

- Ans ☒ A. Bearings
☒ B. Jigs
☒ C. Drill chucks
☒ D. Fixtures

Question ID : 4410091300331
 Option 1 ID : 4410095133655
 Option 2 ID : 4410095133653
 Option 3 ID : 4410095133652
 Option 4 ID : 4410095133654
 Status : Answered
 Chosen Option : C

Q.4 Which of the following is measured using a Vernier caliper?

- Ans ☒ A. Depth
☒ B. Surface roughness
☒ C. Surface area
☒ D. Concavity

Question ID : 4410091302620
 Option 1 ID : 4410095142421
 Option 2 ID : 4410095142422
 Option 3 ID : 4410095142423
 Option 4 ID : 4410095142424
 Status : Answered
 Chosen Option : A

Q.5 In blue matching, the colouring material generally used is:

- Ans ☒ A. White zinc paste
☒ B. Blue Graphite
☒ C. Blue lead
☒ D. Prussian blue

Question ID : 4410091217298
 Option 1 ID : 4410094802580
 Option 2 ID : 4410094802582
 Option 3 ID : 4410094802579
 Option 4 ID : 4410094802581
 Status : Answered
 Chosen Option : D

Q.6 Which of the following options does NOT constitute a case-hardening technique?

- Ans ☒ A. Tempering
☒ B. Carburizing
☒ C. Nitriding
☒ D. Cyaniding

Question ID : 4410091318833
 Option 1 ID : 4410095206898
 Option 2 ID : 4410095206896
 Option 3 ID : 4410095206897
 Option 4 ID : 4410095206899
 Status : Answered
 Chosen Option : A

Q.7 What is the first step in a visual survey of a machine section?

- Ans ☐ A. Remove the bearing for metallurgical analyses
- ☐ B. Run the machine at overload to test endurance
- ☐ C. Perform ultrasonic thickness testing directly
- ☒ D. Look for leaks, loose parts, and abnormal signs

Question ID : 4410091285012

Option 1 ID : 4410095071651

Option 2 ID : 4410095071652

Option 3 ID : 4410095071650

Option 4 ID : 4410095071649

Status : Answered

Chosen Option : D

Q.8 Which of the following is NOT a part of the universal surface gauge?

- Ans ☐ A. Snug
- ☐ B. Rocker arm
- ☒ C. Chuck
- ☐ D. Scriber

Question ID : 4410091298798

Option 1 ID : 4410095127770

Option 2 ID : 4410095127772

Option 3 ID : 4410095127771

Option 4 ID : 4410095127769

Status : Answered

Chosen Option : C

Q.9 A drill having unequal cutting edges and point angles that are not symmetrical will probably result in which type of hole when running out of line?

- Ans ☐ A. Undrilled hole
- ☐ B. Not possible to drill a hole
- ☒ C. Large
- ☐ D. Small

Question ID : 4410091284249

Option 1 ID : 4410095068585

Option 2 ID : 4410095068586

Option 3 ID : 4410095068583

Option 4 ID : 4410095068584

Status : Answered

Chosen Option : B

Q.10 A machine requires 4 bolts of 12 cm length each. What is the total bolt length required?

- Ans ☐ A. 44 cm
- ☒ B. 48 cm
- ☐ C. 52 cm
- ☐ D. 36 cm

Question ID : 4410091284489

Option 1 ID : 4410095069532

Option 2 ID : 4410095069533

Option 3 ID : 4410095069534

Option 4 ID : 4410095069531

Status : Answered

Chosen Option : B

Q.11 Which activity is a function of preventive maintenance?

- Ans ☒ A. Waiting for the machine to fail before starting repairs
- ☒ B. Running the machine without any scheduled attention
- ☒ C. Carrying out inspections and adjustments at regular intervals
- ☒ D. Ignoring manufacturer's recommendations for servicing

Question ID : 4410091281281

Option 1 ID : 4410095056971

Option 2 ID : 4410095056972

Option 3 ID : 4410095056970

Option 4 ID : 4410095056973

Status : Answered

Chosen Option : C

Q.12 Limit gauges are mainly used to:

- Ans ☒ A. check whether parts meet dimensional tolerances without indicating the actual size
- ☒ B. measure the precise size of a part using a scale
- ☒ C. record the surface roughness of machined parts
- ☒ D. assist in laying out dimensions on raw materials

Question ID : 4410091173963

Option 1 ID : 4410094630021

Option 2 ID : 4410094630022

Option 3 ID : 4410094630023

Option 4 ID : 4410094630024

Status : Answered

Chosen Option : A

Q.13 Which of the following is NOT a function of a circular saw?

- Ans ☒ A. Taping
- ☒ B. Rebating
- ☒ C. Trenching
- ☒ D. Ripping

Question ID : 4410091301903

Option 1 ID : 4410095139780

Option 2 ID : 4410095139781

Option 3 ID : 4410095139779

Option 4 ID : 4410095139778

Status : Answered

Chosen Option : A

Q.14 What is a centre punch used for?

- Ans ☒ A. Measuring angles
- ☒ B. Scribing lines
- ☒ C. Cutting metals
- ☒ D. Marking the centre of a hole before drilling

Question ID : 4410091311933

Option 1 ID : 4410095179415

Option 2 ID : 4410095179417

Option 3 ID : 4410095179416

Option 4 ID : 4410095179414

Status : Answered

Chosen Option : D

Q.15 What material is typically used to manufacture hole gauges?

- Ans ☒ A. Mild steel
- ☒ B. Hardened steel
- ☒ C. Brass
- ☒ D. Cast iron

Question ID : 4410091173954
 Option 1 ID : 4410094629985
 Option 2 ID : 4410094629987
 Option 3 ID : 4410094629988
 Option 4 ID : 4410094629986
 Status : Answered
 Chosen Option : B

Q.16 What kind of heat treatment process is often followed by tempering?

- Ans ☒ A. Annealing
- ☒ B. Hardening
- ☒ C. Normalising
- ☒ D. Carburising

Question ID : 4410091319339
 Option 1 ID : 4410095208915
 Option 2 ID : 4410095208917
 Option 3 ID : 4410095208916
 Option 4 ID : 4410095208918
 Status : Answered
 Chosen Option : C

Q.17 Which of the following is a natural abrasive used in the grinding process?

- Ans ☒ A. Silicon carbide
- ☒ B. Aluminium oxide
- ☒ C. Boron carbide
- ☒ D. Diamond

Question ID : 4410091185537
 Option 1 ID : 4410094676345
 Option 2 ID : 4410094676348
 Option 3 ID : 4410094676347
 Option 4 ID : 4410094676346
 Status : Answered
 Chosen Option : D

Q.18 For grinding hard materials, the wheel should be:

- Ans ☒ A. Coarse grit
- ☒ B. Medium grade
- ☒ C. Soft grade
- ☒ D. Hard grade

Question ID : 4410091213963
 Option 1 ID : 4410094789244
 Option 2 ID : 4410094789243
 Option 3 ID : 4410094789242
 Option 4 ID : 4410094789241
 Status : Answered
 Chosen Option : C

Q.19 What is the sine bar primarily used for?

- Ans ☒ A. Measuring lengths
☒ B. Checking and setting of angles
☒ C. Measuring diameters
☒ D. Calibrating micrometres

Question ID : 4410091174050
 Option 1 ID : 4410094630369
 Option 2 ID : 4410094630372
 Option 3 ID : 4410094630370
 Option 4 ID : 4410094630371
 Status : Answered
 Chosen Option : B

Q.20 The Vernier scale in a Vernier micrometer provides _____.

- Ans ☒ A. a locking mechanism
☒ B. a means to adjust zero error
☒ C. fraction part of thimble scale division
☒ D. measurement in mm

Question ID : 4410091301089
 Option 1 ID : 4410095136658
 Option 2 ID : 4410095136659
 Option 3 ID : 4410095136657
 Option 4 ID : 4410095136656
 Status : Answered
 Chosen Option : C

Q.21 What is the main application of the oil hole drill?

- Ans ☒ A. Deep hole drilling
☒ B. Drill a diameter hole
☒ C. Enlarging a hole
☒ D. Multiple hole drilling

Question ID : 4410091284247
 Option 1 ID : 4410095068575
 Option 2 ID : 4410095068578
 Option 3 ID : 4410095068577
 Option 4 ID : 4410095068576
 Status : Answered
 Chosen Option : A

Q.22 In a pneumatic hammer, the hammering action is obtained by:

- Ans ☒ A. compressed air or steam pressure
☒ B. electromagnetic force
☒ C. gravity
☒ D. manual lifting

Question ID : 4410091318964
 Option 1 ID : 4410095207430
 Option 2 ID : 4410095207428
 Option 3 ID : 4410095207431
 Option 4 ID : 4410095207429
 Status : Answered
 Chosen Option : A

Q.23 A technician needs the standard torque value for tightening M10 bolts. Which source is most appropriate?

- Ans ☒ A. Machine design handbook or torque table
- ☒ B. Random trial and error tightening
- ☒ C. Approximation by applying full hand force
- ☒ D. Operator's memory of past experience

Question ID : 4410091284989

Option 1 ID : 4410095071557

Option 2 ID : 4410095071560

Option 3 ID : 4410095071559

Option 4 ID : 4410095071558

Status : Answered

Chosen Option : A

Q.24 Which of the following equipment or its part is NOT used in oxygen-acetylene cutting?

- Ans ☒ A. Electrode
- ☒ B. Pressure gauge
- ☒ C. Hose
- ☒ D. Cylinder

Question ID : 4410091284225

Option 1 ID : 4410095068487

Option 2 ID : 4410095068490

Option 3 ID : 4410095068489

Option 4 ID : 4410095068488

Status : Answered

Chosen Option : A

Q.25 Excessive speed will cause _____ at the outer corners of the drill.

- Ans ☒ A. no wear
- ☒ B. grooves
- ☒ C. helix
- ☒ D. wear

Question ID : 4410091284259

Option 1 ID : 4410095068626

Option 2 ID : 4410095068624

Option 3 ID : 4410095068625

Option 4 ID : 4410095068623

Status : Answered

Chosen Option : D

Q.26 What information is typically marked on each feeler gauge leaf?

- Ans ☒ A. Date of manufacture
- ☒ B. Serial number
- ☒ C. Thickness of the individual leaf
- ☒ D. Length of the leaf

Question ID : 4410091173931

Option 1 ID : 4410094629894

Option 2 ID : 4410094629893

Option 3 ID : 4410094629895

Option 4 ID : 4410094629896

Status : Answered

Chosen Option : C

Q.27 The purpose of the ring test before mounting a grinding wheel is to check:

- Ans ☒ A. Bond material
☒ B. Cracks in the wheel
☒ C. Wheel balance
☒ D. Abrasive type

Question ID : 4410091213410
 Option 1 ID : 4410094787038
 Option 2 ID : 4410094787037
 Option 3 ID : 4410094787039
 Option 4 ID : 4410094787036
 Status : Answered
 Chosen Option : B

Q.28 The accuracy of a vernier bevel protractor is ____.

- Ans ☒ A. 1'
☒ B. 5"
☒ C. 5'
☒ D. 1°

Question ID : 4410091303005
 Option 1 ID : 4410095143993
 Option 2 ID : 4410095143996
 Option 3 ID : 4410095143994
 Option 4 ID : 4410095143995
 Status : Answered
 Chosen Option : C

Q.29 In industrial colour coding, which colour is used to mark safety equipment like first-aid boxes?

- Ans ☒ A. Blue
☒ B. Yellow
☒ C. Green
☒ D. Red

Question ID : 4410091284513
 Option 1 ID : 4410095069627
 Option 2 ID : 4410095069630
 Option 3 ID : 4410095069628
 Option 4 ID : 4410095069629
 Status : Answered
 Chosen Option : D

Q.30 Which kind of work is the primary use for power hammers?

- Ans ☒ A. Forging
☒ B. Turning
☒ C. Welding
☒ D. Milling

Question ID : 4410091318957
 Option 1 ID : 4410095207402
 Option 2 ID : 4410095207400
 Option 3 ID : 4410095207403
 Option 4 ID : 4410095207401
 Status : Answered
 Chosen Option : A

Q.31 In a digital micrometer, a flashing display shows:

- Ans ☒ A. battery is fully charged
- ☒ B. dead battery
- ☒ C. accurate measurement is shown
- ☒ D. micrometer is ready for use

Question ID : 4410091298831
Option 1 ID : 4410095127901
Option 2 ID : 4410095127902
Option 3 ID : 4410095127903
Option 4 ID : 4410095127904
Status : Answered
Chosen Option : B

Q.32 Thread gauges are classified by form into:

- Ans ☒ A. single- and double-ended gauges
- ☒ B. internal and external gauges
- ☒ C. plug screw and ring screw gauges
- ☒ D. mechanical and digital gauges

Question ID : 4410091174038
Option 1 ID : 4410094630323
Option 2 ID : 4410094630321
Option 3 ID : 4410094630324
Option 4 ID : 4410094630322
Status : Answered
Chosen Option : C

Q.33 Which of the following is NOT a function of a screw pitch gauge?

- Ans ☒ A. Identifying pitch of threads
- ☒ B. Measuring effective diameter
- ☒ C. Distinguishing metric and inch threads
- ☒ D. Checking profile of threads

Question ID : 4410091231569
Option 1 ID : 4410094859757
Option 2 ID : 4410094859758
Option 3 ID : 4410094859760
Option 4 ID : 4410094859759
Status : Answered
Chosen Option : C

Q.34 The accuracy of a digital micrometer is _____.

- Ans ☒ A. 0.001 mm
- ☒ B. 0.01 mm
- ☒ C. 0.0001 mm
- ☒ D. 0.1 mm

Question ID : 4410091298807
Option 1 ID : 4410095127806
Option 2 ID : 4410095127805
Option 3 ID : 4410095127807
Option 4 ID : 4410095127808
Status : Answered
Chosen Option : C

Q.35 The leftward welding method used in gas welding is also known as _____ welding.

- Ans ☒ A. forward
☒ B. under water welding
☒ C. vertical
☒ D. backward

Question ID : 4410091301395
 Option 1 ID : 4410095137880
 Option 2 ID : 4410095137883
 Option 3 ID : 4410095137882
 Option 4 ID : 4410095137881
 Status : Answered
 Chosen Option : A

Q.36 Which activity best represents autonomous maintenance by operators?

- Ans ☒ A. Replacing shafts and gears independently
☒ B. Avoiding checks to reduce operator workload
☒ C. Cleaning and lubricating the machine by the operator
☒ D. Dismantling and overhauling major components

Question ID : 4410091285042
 Option 1 ID : 4410095071771
 Option 2 ID : 4410095071772
 Option 3 ID : 4410095071769
 Option 4 ID : 4410095071770
 Status : Answered
 Chosen Option : C

Q.37 Which statement best captures a primary objective of preventive maintenance (PM)?

- Ans ☒ A. Focus mainly on lubrication to avoid keeping PM records and schedules
☒ B. Replace parts only after breakdown to reduce spare-parts inventory
☒ C. Reduce unexpected failures, extend life, improve safety and control cost through planned tasks
☒ D. Run equipment to failure to maximise usage before any maintenance is done

Question ID : 4410091281186
 Option 1 ID : 4410095056573
 Option 2 ID : 4410095056574
 Option 3 ID : 4410095056571
 Option 4 ID : 4410095056572
 Status : Answered
 Chosen Option : A

Q.38 Which of the following is NOT a part of a sensitive bench drilling machine?

- Ans ☒ A. Chuck
☒ B. Spindle
☒ C. Carriage
☒ D. Column

Question ID : 4410091294715
 Option 1 ID : 4410095110833
 Option 2 ID : 4410095110834
 Option 3 ID : 4410095110836
 Option 4 ID : 4410095110835
 Status : Answered
 Chosen Option : C

Q.39 A pillar type drilling machine is used for ____.

- Ans ☒ A. drilling very large diameter holes
☒ B. heavy mass production work
☒ C. light duty work
☒ D. heavy duty drilling operations

Question ID : 4410091294950
 Option 1 ID : 4410095111781
 Option 2 ID : 4410095111784
 Option 3 ID : 4410095111782
 Option 4 ID : 4410095111783
 Status : Answered
 Chosen Option : C

Q.40 What is the cause of the breaking of a drill bit?

- Ans ☒ A. High feed rate
☒ B. Low feed rate
☒ C. Lubrication used
☒ D. Zero feed rate

Question ID : 4410091284234
 Option 1 ID : 4410095068523
 Option 2 ID : 4410095068524
 Option 3 ID : 4410095068525
 Option 4 ID : 4410095068526
 Status : Answered
 Chosen Option : A

Q.41 Normalizing is mainly applied to:

- Ans ☒ A. plastics
☒ B. ceramics
☒ C. ferrous metals
☒ D. non-ferrous metals

Question ID : 4410091318888
 Option 1 ID : 4410095207120
 Option 2 ID : 4410095207123
 Option 3 ID : 4410095207122
 Option 4 ID : 4410095207121
 Status : Answered
 Chosen Option : C

Q.42 The bond in a grinding wheel is used to:

- Ans ☒ A. Increase the motor speed
☒ B. Reduce friction between grains
☒ C. Provide cutting action
☒ D. Hold abrasive grains together

Question ID : 4410091213376
 Option 1 ID : 4410094786896
 Option 2 ID : 4410094786894
 Option 3 ID : 4410094786893
 Option 4 ID : 4410094786895
 Status : Answered
 Chosen Option : D

Q.43 The hole drilled before reaming is usually made:

- Ans ☒ A. Slightly larger than the reamer
- ☒ B. Equal to nominal drill size
- ☒ C. Slightly smaller than the reamer
- ☒ D. Same size as the reamer

Question ID : 4410091214120
Option 1 ID : 4410094789867
Option 2 ID : 4410094789868
Option 3 ID : 4410094789866
Option 4 ID : 4410094789865
Status : Answered
Chosen Option : A

Q.44 During a lubrication survey, what is the best method to ensure correct lubricant application?

- Ans ☒ A. Leave lubrication to operator's memory alone
- ☒ B. Apply grease only at breakdown without record keeping
- ☒ C. Use lubrication charts and mark lubrication points clearly
- ☒ D. Apply any available oil whenever noise is heard

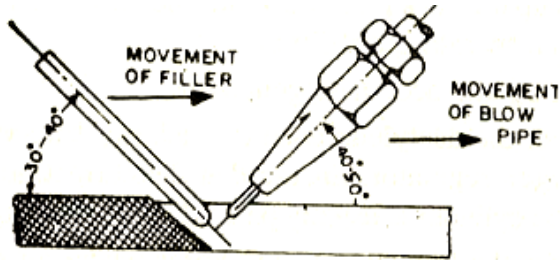
Question ID : 4410091280761
Option 1 ID : 4410095054881
Option 2 ID : 4410095054882
Option 3 ID : 4410095054879
Option 4 ID : 4410095054880
Status : Answered
Chosen Option : C

Q.45 Spade drills are mainly used for ____.

- Ans ☒ A. drilling a small-diameter hole
- ☒ B. multiple hole drilling
- ☒ C. drilling a large-diameter hole
- ☒ D. enlarging hole

Question ID : 4410091284245
Option 1 ID : 4410095068567
Option 2 ID : 4410095068568
Option 3 ID : 4410095068570
Option 4 ID : 4410095068569
Status : Not Answered
Chosen Option : --

Q.46 Which gas-welding technique is illustrated in the given figure?



- Ans ☒ A. Leftward welding
☒ B. Small welding
☒ C. Vertical welding
☒ D. Rightward welding

Question ID : 4410091301402

Option 1 ID : 4410095137909

Option 2 ID : 4410095137911

Option 3 ID : 4410095137910

Option 4 ID : 4410095137908

Status : Answered

Chosen Option : D

Q.47 The part of a circular saw that is used to guide and hold a workpiece while cross cutting is _____.

- Ans ☒ A. mitre gauge
☒ B. arbor
☒ C. ripping fence
☒ D. hand wheel

Question ID : 4410091301811

Option 1 ID : 4410095139415

Option 2 ID : 4410095139414

Option 3 ID : 4410095139413

Option 4 ID : 4410095139416

Status : Answered

Chosen Option : B

Q.48 How is a snap gauge typically shaped?

- Ans ☒ A. C-shaped
☒ B. L-shaped
☒ C. T-shaped
☒ D. I-shaped

Question ID : 4410091174074

Option 1 ID : 4410094630474

Option 2 ID : 4410094630476

Option 3 ID : 4410094630473

Option 4 ID : 4410094630475

Status : Answered

Chosen Option : A

Q.49 The simplest method used to calculate the tap drill size is _____.

- Ans ☒ A. Tap drill size = Major diameter – Pitch
☒ B. Tap drill size = Major diameter × Pitch
☒ C. Tap drill size = Major diameter + Pitch
☒ D. Tap drill size = Major diameter ÷ Pitch

Question ID : 4410091294842
 Option 1 ID : 4410095111350
 Option 2 ID : 4410095111352
 Option 3 ID : 4410095111349
 Option 4 ID : 4410095111351
 Status : Answered
 Chosen Option : A

Q.50 Which of the following saws has continuous cutting ability?

- Ans ☒ A. Reciprocating saw
☒ B. Band saw
☒ C. Circular saw
☒ D. Contour saw

Question ID : 4410091301537
 Option 1 ID : 4410095138388
 Option 2 ID : 4410095138385
 Option 3 ID : 4410095138386
 Option 4 ID : 4410095138387
 Status : Answered
 Chosen Option : B

Q.51 The main function of a machine reamer is to _____.

- Ans ☒ A. drill a hole
☒ B. remove burrs
☒ C. tap threads in a hole
☒ D. enlarge an existing hole

Question ID : 4410091216767
 Option 1 ID : 4410095043643
 Option 2 ID : 4410095043645
 Option 3 ID : 4410095043646
 Option 4 ID : 4410095043644
 Status : Answered
 Chosen Option : D

Q.52 Which of the following is a cutting tool?

- Ans ☒ A. Scriber
☒ B. Try square
☒ C. Band saw
☒ D. Vice

Question ID : 4410091301551
 Option 1 ID : 4410095138442
 Option 2 ID : 4410095138444
 Option 3 ID : 4410095138443
 Option 4 ID : 4410095138441
 Status : Answered
 Chosen Option : C

Q.53 The main function of a machine reamer is to:

- Ans ☒ A. Enlarge and finish an existing hole
☒ B. Drill a hole
☒ C. Tap internal threads
☒ D. Cut external threads

Question ID : 4410091217183
 Option 1 ID : 4410094802125
 Option 2 ID : 4410094802124
 Option 3 ID : 4410094802126
 Option 4 ID : 4410094802127
 Status : Answered
 Chosen Option : A

Q.54 What is the primary purpose of counterboring?

- Ans ☒ A. To create internal threads
☒ B. To provide a tapered entrance to the hole
☒ C. To enlarge the diameter of the entire hole
☒ D. To provide a flat seating surface around a hole

Question ID : 4410091173905
 Option 1 ID : 4410094629789
 Option 2 ID : 4410094629790
 Option 3 ID : 4410094629792
 Option 4 ID : 4410094629791
 Status : Answered
 Chosen Option : C

Q.55 The accuracy of a dial vernier caliper is _____.

- Ans ☒ A. 0.05 mm
☒ B. 0.1 mm
☒ C. 0.5 mm
☒ D. 0.005 mm

Question ID : 4410091302788
 Option 1 ID : 4410095143112
 Option 2 ID : 4410095143110
 Option 3 ID : 4410095143111
 Option 4 ID : 4410095143113
 Status : Answered
 Chosen Option : A

Q.56 Excessive feed sets up abnormal end thrust; what will be the effect on the drill?

- Ans ☒ A. Increase in drill life
☒ B. Failure of the helix
☒ C. No effect on the chisel point
☒ D. Breakdown of the chisel point and cutting lips

Question ID : 4410091284262
 Option 1 ID : 4410095068637
 Option 2 ID : 4410095068636
 Option 3 ID : 4410095068638
 Option 4 ID : 4410095068635
 Status : Answered
 Chosen Option : D

Q.57 What is the function of knurling on the periphery of a ring gauge?

- Ans ☒ A. Improve accuracy
☒ B. Increase wear resistance
☒ C. Reduce weight
☒ D. Enhance grip during handling

Question ID : 4410091174018
 Option 1 ID : 4410094630242
 Option 2 ID : 4410094630244
 Option 3 ID : 4410094630243
 Option 4 ID : 4410094630241
 Status : Answered
 Chosen Option : D

Q.58 What is meant by an overhaul of machinery?

- Ans ☒ A. Complete dismantling, cleaning, repairing and reassembling a machine
☒ B. Running the machine until failure without checking parts
☒ C. Painting the outer surface to improve appearance only
☒ D. Minor lubrication done without opening any machine part

Question ID : 4410091284306
 Option 1 ID : 4410095068811
 Option 2 ID : 4410095068814
 Option 3 ID : 4410095068813
 Option 4 ID : 4410095068812
 Status : Answered
 Chosen Option : A

Q.59 Why are handbooks and reference tables used in preventive maintenance?

- Ans ☒ A. To replace the need for skilled technicians
☒ B. To provide standard data and values for servicing
☒ C. To reduce the cost of spare parts completely
☒ D. To avoid keeping preventive maintenance records

Question ID : 4410091284978
 Option 1 ID : 4410095071514
 Option 2 ID : 4410095071513
 Option 3 ID : 4410095071515
 Option 4 ID : 4410095071516
 Status : Answered
 Chosen Option : B

Q.60 A section inspection finds that a shaft passes visual and NDT checks but still shows premature bearing failure. What advanced inspection step should be applied?

- Ans ☒ A. Apply more grease to mask bearing wear
☒ B. Replace the bearing without further diagnosis
☒ C. Carry out vibration analysis and balancing check
☒ D. Ignore the problem until shaft failure occurs

Question ID : 4410091284483
 Option 1 ID : 4410095069508
 Option 2 ID : 4410095069509
 Option 3 ID : 4410095069507
 Option 4 ID : 4410095069510
 Status : Answered
 Chosen Option : C

Q.61 A chemical dye used as a marking medium in which blue based colour is mixed with methylated spirit is _____.

- Ans ☒ A. Whitewash
☒ B. Cellulose lacquer
☒ C. Prussian blue
☒ D. Marking blue

Question ID : 4410091295401
Option 1 ID : 4410095113565
Option 2 ID : 4410095113567
Option 3 ID : 4410095113568
Option 4 ID : 4410095113566
Status : Answered
Chosen Option : C

Q.62 The distance measured parallel to the axis between corresponding points on adjacent threads is called:

- Ans ☒ A. Flank
☒ B. Pitch
☒ C. Crest
☒ D. Lead

Question ID : 4410091231150
Option 1 ID : 4410094858080
Option 2 ID : 4410094858079
Option 3 ID : 4410094858081
Option 4 ID : 4410094858078
Status : Answered
Chosen Option : B

Q.63 The least count of a Vernier caliper is calculated using the formula _____ and the least count of the Vernier caliper is _____.

- Ans ☒ A. 1 MSD – 1 VSD; 0.01 mm
☒ B. 1 VSD – 1 MSD; 0.01 mm
☒ C. 1 VSD – 1 MSD; 0.1 mm
☒ D. 1 MSD – 1 VSD; 0.1 mm

Question ID : 4410091302643
Option 1 ID : 4410095142532
Option 2 ID : 4410095142531
Option 3 ID : 4410095142529
Option 4 ID : 4410095142530
Status : Answered
Chosen Option : A

Q.64 What is the main objective of tempering steel?

- Ans ☒ A. To increase carbon content
☒ B. To reduce brittleness
☒ C. To decrease ductility
☒ D. To increase hardness

Question ID : 4410091319328
Option 1 ID : 4410095208874
Option 2 ID : 4410095208872
Option 3 ID : 4410095208873
Option 4 ID : 4410095208871
Status : Answered
Chosen Option : B

Q.65 Which material is commonly used for making the blades of a screw pitch gauge?

- Ans ☒ A. Brass
☒ B. Mild steel
☒ C. Thin spring steel sheets
☒ D. Aluminium alloy

Question ID : 4410091173979
 Option 1 ID : 4410094630086
 Option 2 ID : 4410094630085
 Option 3 ID : 4410094630088
 Option 4 ID : 4410094630087
 Status : Answered
 Chosen Option : C

Q.66 The main purpose of a screw thread micrometer is _____.

- Ans ☒ A. to measure the depth of hole
☒ B. to measure the distance between internal parallel surface
☒ C. to measure the diameter of nut
☒ D. to measure the pitch diameter of thread

Question ID : 4410091301002
 Option 1 ID : 4410095136314
 Option 2 ID : 4410095136313
 Option 3 ID : 4410095136312
 Option 4 ID : 4410095136315
 Status : Answered
 Chosen Option : D

Q.67 The Spot facing process is generally carried out using a:

- Ans ☒ A. Reamer
☒ B. Tap
☒ C. Counterbore tool
☒ D. Countersink tool

Question ID : 4410091235223
 Option 1 ID : 4410094874628
 Option 2 ID : 4410094874629
 Option 3 ID : 4410094874626
 Option 4 ID : 4410094874627
 Status : Answered
 Chosen Option : C

Q.68 What is the primary objective of metal hardening?

- Ans ☒ A. To increase hardness and strength
☒ B. To increase ductility
☒ C. To reduce weight
☒ D. To increase softness

Question ID : 4410091318845
 Option 1 ID : 4410095206946
 Option 2 ID : 4410095206945
 Option 3 ID : 4410095206947
 Option 4 ID : 4410095206944
 Status : Answered
 Chosen Option : A

Q.69 The main purpose of a bench grinder is to:

- Ans ☒ A. Weld metals
- ☒ B. Cut wood
- ☒ C. Drill holes in workpieces
- ☒ D. Grind, sharpen, and shape metal tools

Question ID : 4410091213327
 Option 1 ID : 4410094786682
 Option 2 ID : 4410094786680
 Option 3 ID : 4410094786679
 Option 4 ID : 4410094786681
 Status : Answered
 Chosen Option : D

Q.70 A joint formed by joining the edges of two plates in the same plane is called a/an:

- Ans ☒ A. Single overlap joint
- ☒ B. Lap joint
- ☒ C. Overlap joint
- ☒ D. Butt joint

Question ID : 4410091301413
 Option 1 ID : 4410095137959
 Option 2 ID : 4410095137957
 Option 3 ID : 4410095137958
 Option 4 ID : 4410095137956
 Status : Answered
 Chosen Option : D

Section : Engg Drawing and Workshop

Q.1 In which of the following types of levers can the mechanical advantage be equal to, less than, or greater than 1?

- Ans ☒ A. Curved levers
- ☒ B. Third order lever
- ☒ C. Second order lever
- ☒ D. First order lever

Question ID : 4410091227447
 Option 1 ID : 4410094843282
 Option 2 ID : 4410094843281
 Option 3 ID : 4410094843280
 Option 4 ID : 4410094843279
 Status : Answered
 Chosen Option : D

Q.2 What is the value of the density of mercury in the CGS system (gm/cc)?

- Ans ☒ A. 0.71
☒ B. 8.67
☒ C. 13.56
☒ D. 5.93

Question ID : 4410091227177
 Option 1 ID : 4410094842188
 Option 2 ID : 4410094842190
 Option 3 ID : 4410094842189
 Option 4 ID : 4410094842187
 Status : Answered
 Chosen Option : C

Q.3 Which of the following tools can be used to draw perpendicular lines with high accuracy?

- Ans ☒ A. Ruler
☒ B. Divider
☒ C. Compass
☒ D. Set square

Question ID : 4410091180443
 Option 1 ID : 4410094655904
 Option 2 ID : 4410094655905
 Option 3 ID : 4410094655907
 Option 4 ID : 4410094655906
 Status : Answered
 Chosen Option : D

Q.4 Mechanical efficiency of an engine can be expressed as _____.
 (Where, IHP = Indicated Horse Power, BHP = Brake Horse Power)

- Ans ☒ A. IHP/BHP
☒ B. IHP – BHP
☒ C. BHP/IHP
☒ D. (IHP/BHP)²

Question ID : 4410091227190
 Option 1 ID : 4410094842239
 Option 2 ID : 4410094842240
 Option 3 ID : 4410094842241
 Option 4 ID : 4410094842242
 Status : Answered
 Chosen Option : B

Q.5 What is the relationship between the orientation mark and centring marks?

- Ans ☒ A. The orientation mark coincides with one of the centring marks
☒ B. They are perpendicular to each other
☒ C. They are unrelated
☒ D. They are parallel to each other

Question ID : 4410091188075
 Option 1 ID : 4410094686548
 Option 2 ID : 4410094686546
 Option 3 ID : 4410094686549
 Option 4 ID : 4410094686547
 Status : Not Answered
 Chosen Option : --

Q.6 How is the size of a pipe designated?

- Ans ☒ A. By material and colour
☒ B. By shape and texture
☒ C. By inner diameter and thickness
☒ D. By outer diameter and length

Question ID : 4410091188124

Option 1 ID : 4410094686752

Option 2 ID : 4410094686753

Option 3 ID : 4410094686751

Option 4 ID : 4410094686750

Status : Answered

Chosen Option : D

Q.7 What is the relationship between drawing sheet size and drawing scale?

- Ans ☒ A. Larger sheet sizes allow for larger scales.
☒ B. Smaller sheet sizes require larger scales.
☒ C. They are independent of each other.
☒ D. Sheet size determines the scale only.

Question ID : 4410091188083

Option 1 ID : 4410094686579

Option 2 ID : 4410094686580

Option 3 ID : 4410094686578

Option 4 ID : 4410094686581

Status : Not Answered

Chosen Option : --

Q.8 What is the value of $\sqrt{4624}$?

- Ans ☒ A. 46
☒ B. 52
☒ C. 48
☒ D. 68

Question ID : 4410091247347

Option 1 ID : 4410094922603

Option 2 ID : 4410094922601

Option 3 ID : 4410094922602

Option 4 ID : 4410094922604

Status : Answered

Chosen Option : D

Q.9 What is the value of side AB in a right-angled triangle (right angle at B) of side AB = 15 cm and BC = 25 cm?

- Ans ☒ A. 10.69 cm
☒ B. 29.15 cm
☒ C. 28.72 cm
☒ D. 22.63 cm

Question ID : 4410091247203

Option 1 ID : 4410094922036

Option 2 ID : 4410094922035

Option 3 ID : 4410094922034

Option 4 ID : 4410094922033

Status : Not Answered

Chosen Option : --

Q.10 What is the side of the largest square that can be cut out from a circle of 50 cm diameter?

- Ans ☒ A. 35.36 cm
☒ B. 23.65 cm
☒ C. 28.38 cm
☒ D. 16.73 cm

Question ID : 4410091225896
 Option 1 ID : 4410094837073
 Option 2 ID : 4410094837071
 Option 3 ID : 4410094837074
 Option 4 ID : 4410094837072
 Status : Answered
 Chosen Option : B

Q.11 What type of lettering is recommended by the Bureau of Indian Standards for engineering drawings?

- Ans ☒ A. Italic letters
☒ B. Double-stroke letters
☒ C. Script letters
☒ D. Single-stroke letters

Question ID : 4410091180402
 Option 1 ID : 4410094655742
 Option 2 ID : 4410094655740
 Option 3 ID : 4410094655743
 Option 4 ID : 4410094655741
 Status : Answered
 Chosen Option : A

Q.12 What is the benefit of using the angle bisector method?

- Ans ☒ A. It is a complex method that requires calculations
☒ B. It is only useful for right triangles
☒ C. It provides an accurate way to divide angles
☒ D. It is a quick method for estimating angles

Question ID : 4410091180320
 Option 1 ID : 4410094655407
 Option 2 ID : 4410094655406
 Option 3 ID : 4410094655405
 Option 4 ID : 4410094655404
 Status : Answered
 Chosen Option : C

Q.13 Which of the following metals is a non-ferrous metal?

- Ans ☒ A. Mild steel
☒ B. Aluminium
☒ C. Cast iron
☒ D. Pig iron

Question ID : 4410091227541
 Option 1 ID : 4410094843657
 Option 2 ID : 4410094843656
 Option 3 ID : 4410094843658
 Option 4 ID : 4410094843655
 Status : Answered
 Chosen Option : B

Q.14 The boiling point (in degree Celsius) of mercury is:

- Ans ☒ A. 1,419
☒ B. 100
☒ C. 357
☒ D. 767

Question ID : 4410091227311
 Option 1 ID : 4410094842730
 Option 2 ID : 4410094842727
 Option 3 ID : 4410094842728
 Option 4 ID : 4410094842729
 Status : Not Answered
 Chosen Option : --

Q.15 The amount of heat needed to heat 'm' kg of a substance through Δt °C, having a specific heat 's', is equal to:

- Ans ☒ A. $m \times s/Dt$
☒ B. $m \times s \times Dt$
☒ C. $m \times Dt$
☒ D. $m \times s$

Question ID : 4410091227397
 Option 1 ID : 4410094843086
 Option 2 ID : 4410094843084
 Option 3 ID : 4410094843085
 Option 4 ID : 4410094843083
 Status : Answered
 Chosen Option : D

Q.16 What is the primary purpose of using different types of lines in drawing?

- Ans ☒ A. To create texture
☒ B. To add colour
☒ C. To convey specific information
☒ D. To add shading

Question ID : 4410091180281
 Option 1 ID : 4410094655249
 Option 2 ID : 4410094655248
 Option 3 ID : 4410094655250
 Option 4 ID : 4410094655251
 Status : Answered
 Chosen Option : C

Q.17 Which of the following types of rubber is obtained by increasing the sulphur content and through prolonged vulcanisation?

- Ans ☒ A. Silicon rubber
☒ B. Hard rubber
☒ C. Natural rubber
☒ D. Butyl rubber

Question ID : 4410091227524
 Option 1 ID : 4410094843590
 Option 2 ID : 4410094843588
 Option 3 ID : 4410094843587
 Option 4 ID : 4410094843589
 Status : Not Answered
 Chosen Option : --

Q.18 The distance travelled in a definite direction per unit time is called:

- Ans ☒ A. speed
☒ B. velocity
☒ C. momentum
☒ D. acceleration

Question ID : 4410091227219
 Option 1 ID : 4410094842355
 Option 2 ID : 4410094842356
 Option 3 ID : 4410094842358
 Option 4 ID : 4410094842357
 Status : Answered
 Chosen Option : B

Q.19 Pictorial drawing is also known as _____ drawing.

- Ans ☒ A. orthographic
☒ B. multi-view
☒ C. two-dimensional
☒ D. three-dimensional

Question ID : 4410091186646
 Option 1 ID : 4410094680770
 Option 2 ID : 4410094680771
 Option 3 ID : 4410094680768
 Option 4 ID : 4410094680769
 Status : Answered
 Chosen Option : B

Q.20 Four turners finish a job in 300 hours. How much time will 6 turners take to do the same job?

- Ans ☒ A. 450 hours
☒ B. 200 hours
☒ C. 300 hours
☒ D. 50 hours

Question ID : 4410091247169
 Option 1 ID : 4410094921904
 Option 2 ID : 4410094921902
 Option 3 ID : 4410094921903
 Option 4 ID : 4410094921901
 Status : Answered
 Chosen Option : B

Q.21 What is the measure of each angle in an equilateral triangle?

- Ans ☒ A. 30°
☒ B. 60°
☒ C. 45°
☒ D. 90°

Question ID : 4410091180391
 Option 1 ID : 4410094655696
 Option 2 ID : 4410094655698
 Option 3 ID : 4410094655697
 Option 4 ID : 4410094655699
 Status : Answered
 Chosen Option : B

Q.22 What is the length-to-width ratio of an arrowhead in dimensioning?

- Ans ☒ A. 2 : 1
☒ B. 4 : 1
☒ C. 3 : 1
☒ D. 5 : 1

Question ID : 4410091177781
 Option 1 ID : 4410094645328
 Option 2 ID : 4410094645330
 Option 3 ID : 4410094645329
 Option 4 ID : 4410094645331
 Status : Answered
 Chosen Option : C

Q.23 What is the general application of a continuous thick line?

- Ans ☒ A. Visible outlines or edges of an object
☒ B. Hidden outlines and hidden edges
☒ C. Cutting planes
☒ D. Imaginary lines of intersection

Question ID : 4410091180414
 Option 1 ID : 4410094655788
 Option 2 ID : 4410094655790
 Option 3 ID : 4410094655791
 Option 4 ID : 4410094655789
 Status : Answered
 Chosen Option : A

Q.24 Which of the following drawing sheets is the smallest in size?

- Ans ☒ A. A0
☒ B. A1
☒ C. A2
☒ D. A3

Question ID : 4410091188060
 Option 1 ID : 4410094686490
 Option 2 ID : 4410094686491
 Option 3 ID : 4410094686492
 Option 4 ID : 4410094686493
 Status : Answered
 Chosen Option : D

Q.25 What will be the length of the side of a cube if its surface area is 216 cm^2 ?

- Ans ☒ A. 12 cm
☒ B. 10 cm
☒ C. 4 cm
☒ D. 6 cm

Question ID : 4410091227596
 Option 1 ID : 4410094843874
 Option 2 ID : 4410094843873
 Option 3 ID : 4410094843871
 Option 4 ID : 4410094843872
 Status : Answered
 Chosen Option : D

Q.26 What is the purpose of using extension lines in engineering drawing?

- Ans ☒ A. To indicate dimensions
☒ B. To represent visible edges
☒ C. To show hidden features
☒ D. To add decorative elements

Question ID : 4410091180421
 Option 1 ID : 4410094655816
 Option 2 ID : 4410094655817
 Option 3 ID : 4410094655818
 Option 4 ID : 4410094655819
 Status : Answered
 Chosen Option : A

Q.27 Which of the following pencil grades is the hardest?

- Ans ☒ A. 7B
☒ B. H
☒ C. 2H
☒ D. 9H

Question ID : 4410091180237
 Option 1 ID : 4410094655072
 Option 2 ID : 4410094655075
 Option 3 ID : 4410094655074
 Option 4 ID : 4410094655073
 Status : Answered
 Chosen Option : D

Q.28 Which of the following is NOT a property of timber?

- Ans ☒ A. The surface should not clog the teeth of the saw on cutting but should remain bright
☒ B. Should have loose or dead knots and shakes
☒ C. Firm adhesion of fibre
☒ D. Sweet smell

Question ID : 4410091227534
 Option 1 ID : 4410094843630
 Option 2 ID : 4410094843629
 Option 3 ID : 4410094843627
 Option 4 ID : 4410094843628
 Status : Answered
 Chosen Option : A

Q.29 What method do craftsmen use to make drawings without instruments?

- Ans ☒ A. Scale drawing
☒ B. Freehand sketching
☒ C. Computer-aided design
☒ D. Instrument drawing

Question ID : 4410091186634
 Option 1 ID : 4410094680721
 Option 2 ID : 4410094680720
 Option 3 ID : 4410094680723
 Option 4 ID : 4410094680722
 Status : Answered
 Chosen Option : B

Q.30 If the diagonal of a square measures 10 cm, what will be the area of the square?

- Ans ☒ A. 40 cm²
☒ B. 50 cm²
☒ C. 20 cm²
☒ D. 30 cm²

Question ID : 4410091227564

Option 1 ID : 4410094843749

Option 2 ID : 4410094843750

Option 3 ID : 4410094843747

Option 4 ID : 4410094843748

Status : Answered

Chosen Option : B

Section : Aptitude Test

Q.1 सात बॉक्स M, N, O, P, S, T और U एक के ऊपर एक रखे गए हैं लेकिन जरूरी नहीं कि वे इसी क्रम में रखे गए हों। S के नीचे केवल दो बॉक्स रखे गए हैं। T के ऊपर केवल एक बॉक्स रखा गया है। T और U के बीच केवल एक बॉक्स रखा गया है। N को P के ठीक ऊपर रखा गया है। O को M के नीचे किसी स्थान पर रखा गया है। M और N के बीच कितने बॉक्स रखे गए हैं?

- Ans ☒ A. तीन
☒ B. चार
☒ C. दो
☒ D. एक

Question ID : 44100918775

Option 1 ID : 44100974866

Option 2 ID : 44100974867

Option 3 ID : 44100974865

Option 4 ID : 44100974864

Status : Answered

Chosen Option : B

Q.2 Seven people, A, B, C, D, E, F and G, are sitting in a straight line, facing north. Only two people sit to the right of G. Only three people sit between G and E. B sits second to the left of F. A is an immediate neighbour of D. D sits at the extreme right. Who sits third from the extreme left end of the line?

- Ans ☒ A. C
☒ B. E
☒ C. F
☒ D. B

Question ID : 441009755600

Option 1 ID : 4410092976394

Option 2 ID : 4410092976396

Option 3 ID : 4410092976393

Option 4 ID : 4410092976395

Status : Answered

Chosen Option : A

Q.3 What will come in the place of the question mark (?) in the following equation, if '÷' and '−' are interchanged, and '×' and '+' are interchanged?

$$19 \div 5 + 4 - 2 \times 14 = ?$$

Ans ☒ A. 35

☒ B. 23

☒ C. 33

☒ D. 21

Question ID : 441009531909

Option 1 ID : 4410092083040

Option 2 ID : 4410092083043

Option 3 ID : 4410092083042

Option 4 ID : 4410092083041

Status : Answered

Chosen Option : B

Q.4 If 1 is added to each odd digit and 1 is subtracted from each even digit in the number 7856412, what will be difference between the highest and lowest digits in the number thus formed?

Ans ☒ A. 8

☒ B. 5

☒ C. 7

☒ D. 6

Question ID : 441009587185

Option 1 ID : 4410092303869

Option 2 ID : 4410092303866

Option 3 ID : 4410092303868

Option 4 ID : 4410092303867

Status : Answered

Chosen Option : C

Q.5 Sumith covers a certain distance by car driving at 27 km/hr and he re
Find the average speed for the whole journey.

Ans ☒ A. $24\frac{24}{53}$ km/hr

☒ B. $25\frac{25}{53}$ km/hr

☒ C. $26\frac{26}{53}$ km/hr

☒ D. $27\frac{27}{53}$ km/hr

Question ID : 441009168529

Option 1 ID : 441009667075

Option 2 ID : 441009667076

Option 3 ID : 441009667077

Option 4 ID : 441009667078

Status : Answered

Chosen Option : C

Q.6 Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statements.

Statements:

Some wires are plugs. All switches are plugs.

Conclusions:

(I) Some wires are switches

(II) All plugs are switches

Ans ☒ A. Only conclusion (II) follows.

☒ B. Both conclusions (I) and (II) follow.

☒ C. Neither conclusion (I) nor (II) follows.

☒ D. Only conclusion (I) follows.

Question ID : 441009694404

Option 1 ID : 4410092731648

Option 2 ID : 4410092731647

Option 3 ID : 4410092731646

Option 4 ID : 4410092731649

Status : Answered

Chosen Option : C

Q.7 M purchased a watch for ₹X and sold it to K at 20% profit. K spend ₹500 on packing and sold it to R at ₹8,125 and earn a profit of 25%. The value of X is:

Ans ☒ A. 4,800

☒ B. 5,000

☒ C. 4,900

☒ D. 5,100

Question ID : 441009899888

Option 1 ID : 4410093553622

Option 2 ID : 4410093553624

Option 3 ID : 4410093553623

Option 4 ID : 4410093553625

Status : Not Answered

Chosen Option : --

Q.8 The sum of two numbers is 224 and their ratio is 11 : 21. Find the difference between the numbers.

Ans ☒ A. 81

☒ B. 66

☒ C. 75

☒ D. 70

Question ID : 4410091252769

Option 1 ID : 4410094944176

Option 2 ID : 4410094944179

Option 3 ID : 4410094944177

Option 4 ID : 4410094944178

Status : Answered

Chosen Option : D

Q.9 A sum of ₹8,000 yields a simple interest of ₹1,600 in 4 years. What is the annual rate of interest?

- Ans ☒ A. 4%
☒ B. 5%
☒ C. 8%
☒ D. 6%

Question ID : 4410091255367
Option 1 ID : 4410094954450
Option 2 ID : 4410094954451
Option 3 ID : 4410094954453
Option 4 ID : 4410094954452
Status : Answered
Chosen Option : D

Q.10 The number 1375836 is divisible by:

- Ans ☒ A. 84
☒ B. 99
☒ C. 88
☒ D. 89

Question ID : 441009911433
Option 1 ID : 4410093599983
Option 2 ID : 4410093599984
Option 3 ID : 4410093599986
Option 4 ID : 4410093599985
Status : Answered
Chosen Option : B

Q.11 In the given number-pairs, the second number is obtained by applying certain mathematical operation(s) to the first number. In three of the four pairs given in the options, the same pattern is applied and hence they form a group. Select the number-pair that DOES NOT belong to this group.

(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into their constituent digits. E.g. 13 – Operations on 13 such as adding to/subtracting from/multiplying with 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

6 - 38
3 - 1132

- Ans ☒ A. 11 - 124
☒ B. 9 - 82
☒ C. 7 - 51
☒ D. 13 - 170

Question ID : 441009590054
Option 1 ID : 4410092315331
Option 2 ID : 4410092315329
Option 3 ID : 4410092315330
Option 4 ID : 4410092315332
Status : Answered
Chosen Option : C

Q.12 In a certain code language,
A & B means 'A is the son of B',
A @ B means 'A is the brother of B',
A + B means 'A is the wife of B' and
A x B means 'A is the father of B'.
How is V related to G if 'V & R + T x H @ G'?10803

- Ans ☒ A. Son
☒ B. Brother
☒ C. Father
☒ D. Husband

Question ID : 441009716972
Option 1 ID : 4410092821862
Option 2 ID : 4410092821860
Option 3 ID : 4410092821859
Option 4 ID : 4410092821861
Status : Answered
Chosen Option : C

Q.13 Tuhin stood 15th from the left end and 19th from the right end in a row of people sitting and facing the North. How many people are there in the row?

- Ans ☒ A. 32
☒ B. 31
☒ C. 33
☒ D. 34

Question ID : 441009729396
Option 1 ID : 4410092871337
Option 2 ID : 4410092871336
Option 3 ID : 4410092871338
Option 4 ID : 4410092871339
Status : Answered
Chosen Option : C

Q.14 If the third proportional of 8 and 48 be x, then what is the value of x?

- Ans ☒ A. 285
☒ B. 288
☒ C. 287
☒ D. 290

Question ID : 441009278318
Option 1 ID : 4410091081232
Option 2 ID : 4410091081231
Option 3 ID : 4410091081233
Option 4 ID : 4410091081234
Status : Answered
Chosen Option : B

Q.15 If 2 is added to each even digit and 3 is subtracted from each odd digit in the number 32769540, how many digits will appear more than once in the new number thus formed?

- Ans ☒ A. Three
☒ B. Two
☒ C. One
☒ D. None

Question ID : 441009588857
Option 1 ID : 4410092310557
Option 2 ID : 4410092310556
Option 3 ID : 4410092310555
Option 4 ID : 4410092310554
Status : Answered
Chosen Option : B

Q.16 The volume (in cm^3) of a wire of diameter 28 cm and length 9 m is:

take $\pi = \frac{22}{7}$

- Ans ☒ A. 5,55,400
☒ B. 5,53,800
☒ C. 5,53,600
☒ D. 5,54,400

Question ID : 441009280264
Option 1 ID : 4410091089018
Option 2 ID : 4410091089016
Option 3 ID : 4410091089017
Option 4 ID : 4410091089015
Status : Answered
Chosen Option : D

Q.17 The compound interest on a sum for 2 years at 12.5% p.a. (compounded annually) is ₹8,500. Find the sum.

- Ans ☒ A. ₹28,000
☒ B. ₹30,000
☒ C. ₹35,000
☒ D. ₹32,000

Question ID : 4410091255395
Option 1 ID : 4410094954558
Option 2 ID : 4410094954559
Option 3 ID : 4410094954561
Option 4 ID : 4410094954560
Status : Not Answered
Chosen Option : --

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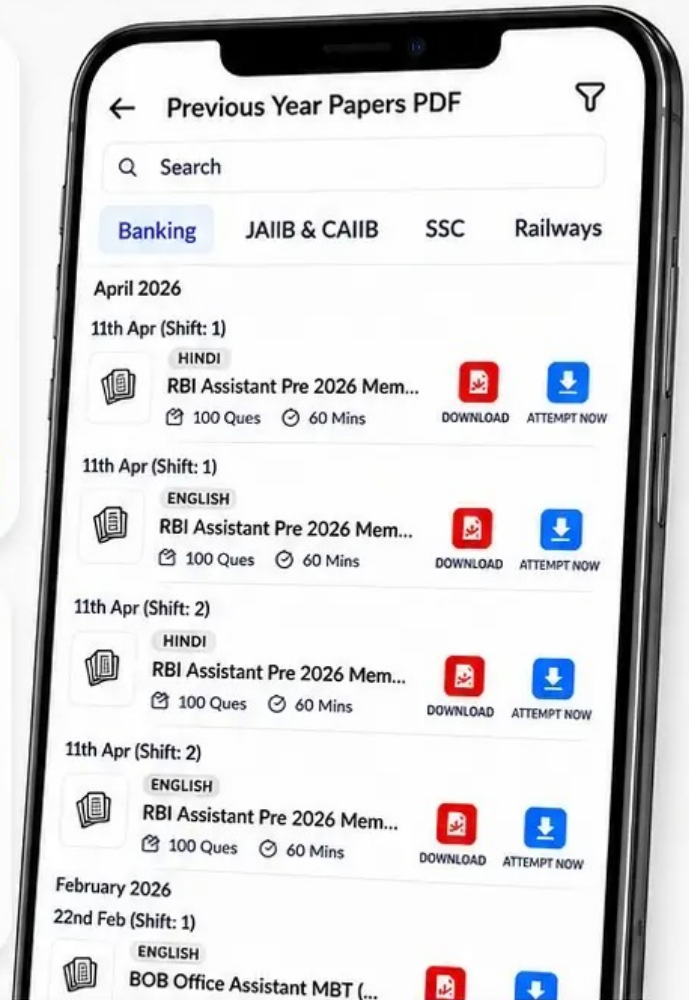
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Q.18 An article is given at two successive discounts of 20% and 10% on its marked price.
What is the single equivalent discount percentage?

- Ans ☒ A. 28%
- ☒ B. 30%
- ☒ C. 27%
- ☒ D. 26%

Question ID : 4410091255419
Option 1 ID : 4410094954648
Option 2 ID : 4410094954649
Option 3 ID : 4410094954647
Option 4 ID : 4410094954646
Status : Answered
Chosen Option : A

Q.19 The product of two numbers is 375 and their LCM is 75. Find their HCF.2614

- Ans ☒ A. 5
- ☒ B. 3
- ☒ C. 25
- ☒ D. 21

Question ID : 441009895927
Option 1 ID : 4410093537778
Option 2 ID : 4410093537779
Option 3 ID : 4410093537781
Option 4 ID : 4410093537780
Status : Answered
Chosen Option : A

Q.20 Rajesh ranked 19th from the top and 24th from the bottom in his class. How many students are there in his class?

- Ans ☒ A. 40
- ☒ B. 41
- ☒ C. 42
- ☒ D. 43

Question ID : 441009755662
Option 1 ID : 4410092976643
Option 2 ID : 4410092976642
Option 3 ID : 4410092976641
Option 4 ID : 4410092976644
Status : Answered
Chosen Option : C