

BHEL Artisan

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



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BHARAT HEAVY ELECTRICALS LIMITED
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Participant ID	
Participant Name	
Test Center Name	
Test Date	08/10/2025
Test Time	2:00 PM - 3:30 PM
Subject	Machinist

Section : Trade Theory

Q.1 What is the primary function of an encoder in a CNC VMC machine?

- Ans ☒ A. Convert AC to DC
- ☒ B. Provide position and feedback to control system
- ☒ C. Supply power to the motor
- ☒ D. Increase spindle speed

Question ID : 4410091182867
Option 1 ID : 4410094665526
Option 2 ID : 4410094665527
Option 3 ID : 4410094665525
Option 4 ID : 4410094665528
Status : Answered
Chosen Option : B

Q.2 What replaces the arbor in a vertical milling machine?

- Ans ☒ A. Vertical spindle
- ☒ B. Horizontal overarm
- ☒ C. Chuck
- ☒ D. Tool magazine

Question ID : 4410091178770
Option 1 ID : 4410094649227
Option 2 ID : 4410094649226
Option 3 ID : 4410094649228
Option 4 ID : 4410094649229
Status : Answered
Chosen Option : A

Q.3 What would likely happen if a chip conveyor in a CNC VMC is not functioning properly?

- Ans ☒ A. Workpiece clamping will improve.
- ☒ B. Chips may accumulate and interfere with tool movement.
- ☒ C. Axis drive motors may run faster.
- ☒ D. Coolant temperature will decrease.

Question ID : 4410091182840
Option 1 ID : 4410094665422
Option 2 ID : 4410094665423
Option 3 ID : 4410094665424
Option 4 ID : 4410094665421
Status : Answered
Chosen Option : B

Q.4 Heat treatment is mainly NOT applied to:

- Ans ☒ A. metals and alloys
- ☒ B. ceramics
- ☒ C. glass
- ☒ D. wood

Question ID : 4410091175533
Option 1 ID : 4410094636388
Option 2 ID : 4410094636387
Option 3 ID : 4410094636389
Option 4 ID : 4410094636386
Status : Answered
Chosen Option : D

Q.5 Which component of the vertical milling attachment holds the vertical spindle?

- Ans ☒ A. Ram
- ☒ B. Housing bracket
- ☒ C. Arbor support
- ☒ D. Swivel head

Question ID : 4410091178771
Option 1 ID : 4410094649230
Option 2 ID : 4410094649232
Option 3 ID : 4410094649231
Option 4 ID : 4410094649233
Status : Answered
Chosen Option : B

Q.6 What is the role of a DNC buffer in the DNC system setup?

- Ans ☒ A. To cool the CNC controller
- ☒ B. To store inspection reports
- ☒ C. To temporarily store blocks of the part programme before execution
- ☒ D. To store tooling data

Question ID : 4410091257699
Option 1 ID : 4410094963647
Option 2 ID : 4410094963648
Option 3 ID : 4410094963646
Option 4 ID : 4410094963645
Status : Answered
Chosen Option : C

Q.7 Zero rake angle in milling cutters is ideal for machining which type of materials?

- Ans ☒ A. Brittle materials like cast iron
☒ B. Ductile materials like aluminium
☒ C. Tough alloys like stainless steel
☒ D. Soft polymers and plastics

Question ID : 4410091178749
 Option 1 ID : 4410094649144
 Option 2 ID : 4410094649142
 Option 3 ID : 4410094649143
 Option 4 ID : 4410094649145
 Status : Answered
 Chosen Option : A

Q.8 Why is heat treatment necessary for metals?

- Ans ☒ A. To make the metal magnetic
☒ B. To reduce weight
☒ C. To improve mechanical properties
☒ D. To improve colour

Question ID : 4410091175500
 Option 1 ID : 4410094636257
 Option 2 ID : 4410094636255
 Option 3 ID : 4410094636256
 Option 4 ID : 4410094636254
 Status : Answered
 Chosen Option : C

Q.9 What is the purpose of geometric tolerancing?

- Ans ☒ A. Reduce machine time
☒ B. Avoid inspection of parts
☒ C. Allow any amount of deviation
☒ D. Ensure functional requirements and interchangeability

Question ID : 4410091179377
 Option 1 ID : 4410094651649
 Option 2 ID : 4410094651652
 Option 3 ID : 4410094651650
 Option 4 ID : 4410094651651
 Status : Answered
 Chosen Option : D

Q.10 What is the primary clearance angle provided during cutter grinding?

- Ans ☒ A. 20°–25°
☒ B. 5°–8°
☒ C. 10°–12°
☒ D. 0°–2°

Question ID : 4410091179362
 Option 1 ID : 4410094651596
 Option 2 ID : 4410094651594
 Option 3 ID : 4410094651595
 Option 4 ID : 4410094651593
 Status : Answered
 Chosen Option : C

Q.11 The standard pressure angle used in involute gears is:

- Ans ☒ A. 25°
☒ B. 14°
☒ C. 20°
☒ D. 10°

Question ID : 4410091180892
 Option 1 ID : 4410094657705
 Option 2 ID : 4410094657703
 Option 3 ID : 4410094657704
 Option 4 ID : 4410094657702
 Status : Not Answered
 Chosen Option : --

Q.12 For high-production reaming of cast iron and abrasive materials, the best material choice is:

- Ans ☒ A. Brass
☒ B. Cast steel
☒ C. Mild steel
☒ D. Stellite (cobalt-based alloy)

Question ID : 4410091259228
 Option 1 ID : 4410094969731
 Option 2 ID : 4410094969728
 Option 3 ID : 4410094969730
 Option 4 ID : 4410094969729
 Status : Answered
 Chosen Option : D

Q.13 Which grit size would be most suitable for fine surface finishing?

- Ans ☒ A. 120
☒ B. 46
☒ C. 16
☒ D. 24

Question ID : 4410091175758
 Option 1 ID : 4410094637275
 Option 2 ID : 4410094637274
 Option 3 ID : 4410094637272
 Option 4 ID : 4410094637273
 Status : Answered
 Chosen Option : A

Q.14 Which part of the cylindrical grinder allows for taper grinding?

- Ans ☒ A. Grinding wheel
☒ B. Tailstock
☒ C. Swiveling table
☒ D. Headstock

Question ID : 4410091176196
 Option 1 ID : 4410094639034
 Option 2 ID : 4410094639031
 Option 3 ID : 4410094639033
 Option 4 ID : 4410094639032
 Status : Answered
 Chosen Option : C

Q.15 MPG mode is primarily used for which CNC operation?

- Ans ☐ A. Tool wear compensation
- ☒ B. Manual and precise axis positioning
- ☐ C. Spindle speed setting
- ☐ D. High-speed automatic milling

Question ID : 4410091257751
 Option 1 ID : 4410094963852
 Option 2 ID : 4410094963850
 Option 3 ID : 4410094963851
 Option 4 ID : 4410094963849
 Status : Answered
 Chosen Option : B

Q.16 Which component of a bore dial gauge contacts the inside surface of a bore?

- Ans ☐ A. Extension Rod
- ☒ B. Measuring Anvils
- ☐ C. Dial Indicator
- ☐ D. Magnetic Base

Question ID : 4410091179544
 Option 1 ID : 4410094652312
 Option 2 ID : 4410094652313
 Option 3 ID : 4410094652311
 Option 4 ID : 4410094652314
 Status : Answered
 Chosen Option : C

Q.17 What type of slotting machine is typically used for high-precision angular or tapered slots?

- Ans ☐ A. General purpose slotting machine
- ☒ B. Precision tool room slotting machine
- ☐ C. Die slotting machine
- ☐ D. Travelling head slotting machine

Question ID : 4410091177330
 Option 1 ID : 4410094643521
 Option 2 ID : 4410094643519
 Option 3 ID : 4410094643518
 Option 4 ID : 4410094643520
 Status : Answered
 Chosen Option : B

Q.18 What does the symbol L represent in the drilling time formula $T = \frac{L}{n \times S_r}$?

- Ans ☐ A. Approach length of drill only
- ☒ B. Total length of drill travel
- ☐ C. Length of workpiece only
- ☐ D. Diameter of drill

Question ID : 4410091177249
 Option 1 ID : 4410094643202
 Option 2 ID : 4410094643201
 Option 3 ID : 4410094643200
 Option 4 ID : 4410094643199
 Status : Answered
 Chosen Option : C

Q.19 Which part of the gear comes into direct contact with the mating gear?

Ans ☒ A. Tooth

☒ B. Dedendum circle

☒ C. Addendum circle

☒ D. Fillet

Question ID : 4410091180842

Option 1 ID : 4410094657509

Option 2 ID : 4410094657506

Option 3 ID : 4410094657508

Option 4 ID : 4410094657507

Status : Answered

Chosen Option : A

Q.20 What is the function of the base or bed in a slotting machine?

Ans ☒ A. It holds the tool post rigidly.

☒ B. It adjusts the stroke of the ram.

☒ C. It drives the ram mechanism.

☒ D. It supports the workpiece and absorbs cutting forces.

Question ID : 4410091177338

Option 1 ID : 4410094643550

Option 2 ID : 4410094643553

Option 3 ID : 4410094643551

Option 4 ID : 4410094643552

Status : Answered

Chosen Option : D

Q.21 Which tool is used to force grease into a bearing through a nipple fitting?

Ans ☒ A. Drip lubricator

☒ B. Grease gun

☒ C. Oil cup

☒ D. Wick oiler

Question ID : 4410091178740

Option 1 ID : 4410094649109

Option 2 ID : 4410094649107

Option 3 ID : 4410094649108

Option 4 ID : 4410094649106

Status : Answered

Chosen Option : B

Q.22 The Universal Indexing Head differs from the Simple Indexing Head by having:

Ans ☒ A. a self-centering chuck

☒ B. a tailstock

☒ C. a swiveling spindle

☒ D. a differential mechanism

Question ID : 4410091175623

Option 1 ID : 4410094636747

Option 2 ID : 4410094636744

Option 3 ID : 4410094636746

Option 4 ID : 4410094636745

Status : Answered

Chosen Option : C

Q.23 Which part of the milling machine slides up and down along a guideway and houses the feed mechanism?

- Ans ☒ A. Saddle
☒ B. Knee
☒ C. Column
☒ D. Base

Question ID : 4410091178743
 Option 1 ID : 4410094649120
 Option 2 ID : 4410094649121
 Option 3 ID : 4410094649119
 Option 4 ID : 4410094649118
 Status : Answered
 Chosen Option : B

Q.24 If the reaming allowance is too small (less than 0.1 mm), the reamer will likely:

- Ans ☒ A. produce oversized holes
☒ B. produce undersized holes
☒ C. rub instead of cutting, leading to poor finish
☒ D. cut threads in the bore

Question ID : 4410091259327
 Option 1 ID : 4410094970140
 Option 2 ID : 4410094970142
 Option 3 ID : 4410094970141
 Option 4 ID : 4410094970143
 Status : Answered
 Chosen Option : C

Q.25 Which tool is specifically designed for cutting narrow grooves or slots in restricted areas?

- Ans ☒ A. Parting tool
☒ B. Sizing tool
☒ C. Cornering tool
☒ D. Roughing tool

Question ID : 4410091178719
 Option 1 ID : 4410094649020
 Option 2 ID : 4410094649018
 Option 3 ID : 4410094649019
 Option 4 ID : 4410094649021
 Status : Answered
 Chosen Option : C

Q.26 Which of the following is a basic care practice for a Vernier calliper?

- Ans ☒ A. Immersing it in water for cleaning
☒ B. Using it to scratch metal surfaces
☒ C. Wiping it with a dry cloth and storing in a protective case
☒ D. Dropping it to check stability

Question ID : 4410091260063
 Option 1 ID : 4410094973106
 Option 2 ID : 4410094973105
 Option 3 ID : 4410094973104
 Option 4 ID : 4410094973107
 Status : Answered
 Chosen Option : C

Q.27 Which of the following geometric tolerances controls the roundness of a cylindrical part?

- Ans ☒ A. Flatness
☒ B. Perpendicularity
☒ C. Circularity
☒ D. Cylindricity

Question ID : 4410091179434
 Option 1 ID : 4410094651879
 Option 2 ID : 4410094651882
 Option 3 ID : 4410094651880
 Option 4 ID : 4410094651881
 Status : Answered
 Chosen Option : D

Q.28 What are the effects of using an unbalanced grinding wheel?

- Ans ☒ A. Increased safety of operation
☒ B. Improved surface finish
☒ C. Excessive vibration and poor surface finish
☒ D. Reduced wheel wear

Question ID : 4410091175837
 Option 1 ID : 4410094637589
 Option 2 ID : 4410094637588
 Option 3 ID : 4410094637590
 Option 4 ID : 4410094637591
 Status : Answered
 Chosen Option : C

Q.29 Which of the following grades represents a soft grinding wheel?

- Ans ☒ A. L
☒ B. R
☒ C. Z
☒ D. H

Question ID : 4410091175725
 Option 1 ID : 4410094637141
 Option 2 ID : 4410094637142
 Option 3 ID : 4410094637143
 Option 4 ID : 4410094637140
 Status : Answered
 Chosen Option : D

Q.30 Which of the following is used to transmit motion between parallel shafts?

- Ans ☒ A. Rack and pinion
☒ B. Worm gear
☒ C. Spur gear
☒ D. Bevel gear

Question ID : 4410091180752
 Option 1 ID : 4410094657147
 Option 2 ID : 4410094657145
 Option 3 ID : 4410094657146
 Option 4 ID : 4410094657144
 Status : Answered
 Chosen Option : C

Q.31 The circular pitch is defined as:

- Ans ☒ A. the distance between two similar points on adjacent teeth along the pitch circle
- ☒ B. tooth height
- ☒ C. the number of teeth per inch
- ☒ D. the thickness of gear tooth

Question ID : 4410091180879

Option 1 ID : 4410094657655

Option 2 ID : 4410094657657

Option 3 ID : 4410094657656

Option 4 ID : 4410094657654

Status : Answered

Chosen Option : A

Q.32 In addition to cooling, what role does a coolant play during the cutting process?

- Ans ☒ A. Washes away the chips from the cutting area
- ☒ B. Charges the tool electrically
- ☒ C. Increases the heat transfer to the workpiece
- ☒ D. Provides decorative finish

Question ID : 4410091178725

Option 1 ID : 4410094649052

Option 2 ID : 4410094649053

Option 3 ID : 4410094649050

Option 4 ID : 4410094649051

Status : Answered

Chosen Option : A

Q.33 What is inserted into the slot of the holder for fly cutting in spot facing?

- Ans ☒ A. A tap
- ☒ B. A drill bit
- ☒ C. A reamer
- ☒ D. A cutter blade

Question ID : 4410091177220

Option 1 ID : 4410094643083

Option 2 ID : 4410094643085

Option 3 ID : 4410094643086

Option 4 ID : 4410094643084

Status : Answered

Chosen Option : C

Q.34 Straddle milling is commonly used to machine which types of surfaces?

- Ans ☒ A. Circular and tapered surfaces
- ☒ B. Square and hexagonal surfaces
- ☒ C. Threaded and knurled surfaces
- ☒ D. Irregular and contoured surfaces

Question ID : 4410091178766

Option 1 ID : 4410094649211

Option 2 ID : 4410094649212

Option 3 ID : 4410094649213

Option 4 ID : 4410094649210

Status : Answered

Chosen Option : D

Q.35 What is the primary function of the helix angle in an end mill?

- Ans ☒ A. Improve coolant flow
- ☒ B. Facilitate chip evacuation
- ☒ C. Reduce tool cost
- ☒ D. Increase spindle speed

Question ID : 4410091258965
Option 1 ID : 4410094968691
Option 2 ID : 4410094968690
Option 3 ID : 4410094968688
Option 4 ID : 4410094968689
Status : Answered
Chosen Option : B

Q.36 Which part of the depth micrometer is responsible for taking the depth reading?

- Ans ☒ A. Base
- ☒ B. Measuring spindle
- ☒ C. Thimble
- ☒ D. Ratchet stop

Question ID : 4410091179489
Option 1 ID : 4410094652096
Option 2 ID : 4410094652095
Option 3 ID : 4410094652097
Option 4 ID : 4410094652098
Status : Answered
Chosen Option : B

Q.37 In CNC programming, which code typically controls the rotary table motion?

- Ans ☒ A. G17
- ☒ B. M03
- ☒ C. G93
- ☒ D. G00

Question ID : 4410091182850
Option 1 ID : 4410094665459
Option 2 ID : 4410094665458
Option 3 ID : 4410094665460
Option 4 ID : 4410094665457
Status : Answered
Chosen Option : C

Q.38 According to BIS, how are counter bore sizes standardised?

- Ans ☒ A. Based on the diameter of screws
- ☒ B. Based on spindle speed
- ☒ C. Based on material hardness
- ☒ D. Based on drill point angle

Question ID : 4410091177215
Option 1 ID : 4410094643063
Option 2 ID : 4410094643066
Option 3 ID : 4410094643064
Option 4 ID : 4410094643065
Status : Answered
Chosen Option : D

Q.39 The main purpose of a coolant in a CNC Vertical Machining Center is to:

- Ans ☒ A. increase cutting speed
☒ B. improve the appearance of the job
☒ C. provide lubrication only
☒ D. reduce heat and flush chips

Question ID : 4410091182824
 Option 1 ID : 4410094665357
 Option 2 ID : 4410094665360
 Option 3 ID : 4410094665358
 Option 4 ID : 4410094665359
 Status : Answered
 Chosen Option : D

Q.40 A component has a basic size of 60 mm with limits 60.10 mm and 59.90 mm. Which actual size is acceptable?

- Ans ☒ A. 60.00 mm
☒ B. 60.15 mm
☒ C. 59.85 mm
☒ D. 60.20 mm

Question ID : 4410091177297
 Option 1 ID : 4410094643389
 Option 2 ID : 4410094643386
 Option 3 ID : 4410094643387
 Option 4 ID : 4410094643388
 Status : Answered
 Chosen Option : A

Q.41 If the zero error of a Vernier calliper is +0.03 mm and the measured reading is 50.28 mm, the corrected measurement is:

- Ans ☒ A. 50.31 mm
☒ B. 50.28 mm
☒ C. 50.25 mm
☒ D. 50.03 mm

Question ID : 4410091260052
 Option 1 ID : 4410094973060
 Option 2 ID : 4410094973062
 Option 3 ID : 4410094973061
 Option 4 ID : 4410094973063
 Status : Answered
 Chosen Option : C

Q.42 In grinding operations, a negative top rake angle is most suitable for:

- Ans ☒ A. non-metallic materials
☒ B. soft ductile materials
☒ C. hard and brittle materials
☒ D. wood and plastic materials

Question ID : 4410091175812
 Option 1 ID : 4410094637489
 Option 2 ID : 4410094637488
 Option 3 ID : 4410094637490
 Option 4 ID : 4410094637491
 Status : Answered
 Chosen Option : B

Q.43 Which of the following operations is performed after drilling to improve hole accuracy?

- Ans ☐ A. Countersinking
☐ B. Counterboring
☐ C. Tapping
☒ D. Reaming

Question ID : 4410091259939
 Option 1 ID : 4410094972625
 Option 2 ID : 4410094972624
 Option 3 ID : 4410094972627
 Option 4 ID : 4410094972626
 Status : Answered
 Chosen Option : D

Q.44 Which of the following is NOT an application of radial drilling machines?

- Ans ☒ A. Micro-drilling in precision electronic components
☐ B. Drilling heavy and large workpieces
☐ C. Drilling multiple holes in one setting of the workpiece
☐ D. Drilling large diameter holes

Question ID : 4410091177205
 Option 1 ID : 4410094643028
 Option 2 ID : 4410094643029
 Option 3 ID : 4410094643030
 Option 4 ID : 4410094643027
 Status : Answered
 Chosen Option : C

Q.45 Which angle of countersink is commonly used for head screws and deburring operations?

- Ans ☐ A. 80°
☐ B. 120°
☐ C. 75°
☒ D. 90°

Question ID : 4410091177213
 Option 1 ID : 4410094643056
 Option 2 ID : 4410094643058
 Option 3 ID : 4410094643055
 Option 4 ID : 4410094643057
 Status : Answered
 Chosen Option : B

Q.46 Bevel gears are used to transmit power between shafts that are:

- Ans ☐ A. horizontal only
☐ B. parallel
☒ C. intersecting
☐ D. skew

Question ID : 4410091180800
 Option 1 ID : 4410094657335
 Option 2 ID : 4410094657332
 Option 3 ID : 4410094657333
 Option 4 ID : 4410094657334
 Status : Answered
 Chosen Option : C

Q.47 What controls the sequence of tool changes in a CNC VMC machine?

- Ans ☒ A. Tool holder
☒ B. Tool turret
☒ C. CNC controller
☒ D. Servo motor

Question ID : 4410091182811
 Option 1 ID : 4410094665306
 Option 2 ID : 4410094665305
 Option 3 ID : 4410094665307
 Option 4 ID : 4410094665308
 Status : Answered
 Chosen Option : B

Q.48 In a screw thread, the crest is defined as:

- Ans ☒ A. top surface of the thread joining the flanks
☒ B. imaginary cylinder through pitch line
☒ C. angle formed between two flanks
☒ D. bottom surface of thread groove

Question ID : 4410091259407
 Option 1 ID : 4410094970485
 Option 2 ID : 4410094970486
 Option 3 ID : 4410094970487
 Option 4 ID : 4410094970484
 Status : Answered
 Chosen Option : A

Q.49 Which of the following factors directly contributes to a reduction in cycle time in a manufacturing process?

- Ans ☒ A. Implementing tool change delays
☒ B. Increasing machine idle time
☒ C. Reducing operator efficiency
☒ D. Optimising feed rate and cutting speed

Question ID : 4410091258611
 Option 1 ID : 4410094967293
 Option 2 ID : 4410094967292
 Option 3 ID : 4410094967295
 Option 4 ID : 4410094967294
 Status : Answered
 Chosen Option : D

Q.50 The base of a Vernier height gauge is designed to:

- Ans ☒ A. hold the Vernier scale in position
☒ B. provide reference with the surface plate and ensure stability
☒ C. measure inside dimensions
☒ D. mark angles on workpieces

Question ID : 4410091260005
 Option 1 ID : 4410094972877
 Option 2 ID : 4410094972876
 Option 3 ID : 4410094972878
 Option 4 ID : 4410094972879
 Status : Answered
 Chosen Option : B

Q.51 In end milling, the feed per tooth is calculated by:

- Ans ☒ A. $\text{RPM} \div \text{Feed rate}$
- ☒ B. $\text{Feed rate} \times \text{RPM} \times \text{Number of teeth}$
- ☒ C. $\text{Cutter diameter} \times \text{RPM}$
- ☒ D. $\text{Feed rate} \div (\text{RPM} \times \text{Number of teeth})$

Question ID : 4410091259114

Option 1 ID : 4410094969274

Option 2 ID : 4410094969272

Option 3 ID : 4410094969275

Option 4 ID : 4410094969273

Status : Answered

Chosen Option : B

Q.52 When CRC is most essential in CNC milling operations?

- Ans ☒ A. During drilling operations
- ☒ B. When machining straight holes
- ☒ C. During tool change alarms
- ☒ D. When using different tool diameters for the same programme

Question ID : 4410091258921

Option 1 ID : 4410094968516

Option 2 ID : 4410094968517

Option 3 ID : 4410094968519

Option 4 ID : 4410094968518

Status : Answered

Chosen Option : D

Q.53 Which metal is known for its distinctive red colour?

- Ans ☒ A. Copper
- ☒ B. Mild Steel
- ☒ C. Lead
- ☒ D. Aluminium

Question ID : 4410091178802

Option 1 ID : 4410094649354

Option 2 ID : 4410094649355

Option 3 ID : 4410094649357

Option 4 ID : 4410094649356

Status : Answered

Chosen Option : A

Q.54 Which instrument is commonly used for testing gear tooth profile errors?

- Ans ☒ A. Vernier caliper
- ☒ B. Micrometer
- ☒ C. Profile projector (optical comparator)
- ☒ D. Feeler gauge

Question ID : 4410091259218

Option 1 ID : 4410094969688

Option 2 ID : 4410094969690

Option 3 ID : 4410094969689

Option 4 ID : 4410094969691

Status : Answered

Chosen Option : C

Q.55 Which medium is used for quenching high carbon steel?

- Ans ☒ A. Water
☒ B. Air
☒ C. Grease
☒ D. Oil

Question ID : 4410091175587
 Option 1 ID : 4410094636601
 Option 2 ID : 4410094636602
 Option 3 ID : 4410094636603
 Option 4 ID : 4410094636600
 Status : Answered
 Chosen Option : D

Q.56 In pillar type drilling machines, the column is typically of which cross-sectional shape to enable the table to swing out?

- Ans ☒ A. Hexagonal
☒ B. Round
☒ C. Rectangular
☒ D. Square

Question ID : 4410091177195
 Option 1 ID : 4410094642988
 Option 2 ID : 4410094642989
 Option 3 ID : 4410094642987
 Option 4 ID : 4410094642990
 Status : Not Answered
 Chosen Option : --

Q.57 What is the main reason for glazing of a grinding wheel?

- Ans ☒ A. Coolant is excessive.
☒ B. Workpiece is too soft.
☒ C. Wheel is too soft.
☒ D. Wheel is too hard.

Question ID : 4410091175927
 Option 1 ID : 4410094637947
 Option 2 ID : 4410094637946
 Option 3 ID : 4410094637944
 Option 4 ID : 4410094637945
 Status : Answered
 Chosen Option : D

Q.58 What is the main function of the MDI (Manual Data Input) mode on a CNC VMC console?

- Ans ☒ A. Load CAD models into CNC
☒ B. Execute single block G-code commands manually
☒ C. Display system diagnostics
☒ D. Store programs into memory

Question ID : 4410091182860
 Option 1 ID : 4410094665500
 Option 2 ID : 4410094665499
 Option 3 ID : 4410094665497
 Option 4 ID : 4410094665498
 Status : Answered
 Chosen Option : B

Q.59 What is the purpose of backlash in gears?

- Ans ☒ A. Reduce friction
☒ B. Increase speed
☒ C. Compensate thermal expansion
☒ D. Allow slight relative movement

Question ID : 4410091180856
 Option 1 ID : 4410094657563
 Option 2 ID : 4410094657562
 Option 3 ID : 4410094657564
 Option 4 ID : 4410094657565
 Status : Answered
 Chosen Option : A

Q.60 For drilling medium carbon or mild steel with an HSS drill, which of the following speed ranges is suitable?

- Ans ☒ A. 40–60 m/min
☒ B. 5–8 m/min
☒ C. 30–50 m/min
☒ D. 20–30 m/min

Question ID : 4410091177231
 Option 1 ID : 4410094643130
 Option 2 ID : 4410094643129
 Option 3 ID : 4410094643128
 Option 4 ID : 4410094643127
 Status : Answered
 Chosen Option : D

Q.61 Telescopic gauges are adjusted to the bore size using:

- Ans ☒ A. a feeler gauge
☒ B. a laser pointer
☒ C. a locking screw
☒ D. a spring-loaded dial

Question ID : 4410091179602
 Option 1 ID : 4410094652545
 Option 2 ID : 4410094652546
 Option 3 ID : 4410094652543
 Option 4 ID : 4410094652544
 Status : Not Answered
 Chosen Option : --

Q.62 Which statement best describes the tolerance zone in a limit system?

- Ans ☒ A. It is always above the basic size.
☒ B. It is a zone defined by upper and lower deviations from the basic size.
☒ C. It lies at zero deviation from the actual size.
☒ D. It is equal to the basic size.

Question ID : 4410091177310
 Option 1 ID : 4410094643438
 Option 2 ID : 4410094643439
 Option 3 ID : 4410094643440
 Option 4 ID : 4410094643441
 Status : Answered
 Chosen Option : B

Q.63 How many types of telescopic gauges are commonly used?

- Ans ☒ A. Three
☒ B. One
☒ C. Four
☒ D. Two

Question ID : 4410091179566
 Option 1 ID : 4410094652401
 Option 2 ID : 4410094652399
 Option 3 ID : 4410094652402
 Option 4 ID : 4410094652400
 Status : Answered
 Chosen Option : D

Q.64 In a Vernier height gauge, the main scale reading (MSR) is taken from:

- Ans ☒ A. the graduation just below the Vernier zero
☒ B. the top of the scriber
☒ C. the last division of the Vernier scale
☒ D. the centre of the base

Question ID : 4410091260018
 Option 1 ID : 4410094972929
 Option 2 ID : 4410094972928
 Option 3 ID : 4410094972931
 Option 4 ID : 4410094972930
 Status : Answered
 Chosen Option : C

Q.65 In the system of size limits, which deviation determines the maximum limit of size?

- Ans ☒ A. Actual deviation
☒ B. Upper deviation
☒ C. Lower deviation
☒ D. Tolerance deviation

Question ID : 4410091177280
 Option 1 ID : 4410094643318
 Option 2 ID : 4410094643321
 Option 3 ID : 4410094643319
 Option 4 ID : 4410094643320
 Status : Answered
 Chosen Option : B

Q.66 What is another name for plain milling?

- Ans ☒ A. Face milling
☒ B. Slab milling
☒ C. End milling
☒ D. Slot milling

Question ID : 4410091178753
 Option 1 ID : 4410094649158
 Option 2 ID : 4410094649161
 Option 3 ID : 4410094649160
 Option 4 ID : 4410094649159
 Status : Answered
 Chosen Option : B

Q.67 Which CNC parameter is commonly adjusted to correct minor dimensional errors due to tool wear?

- Ans ☒ A. Wear offset
☒ B. Feed rate
☒ C. Machine zero
☒ D. Spindle override

Question ID : 4410091258605
 Option 1 ID : 4410094967269
 Option 2 ID : 4410094967268
 Option 3 ID : 4410094967270
 Option 4 ID : 4410094967271
 Status : Answered
 Chosen Option : A

Q.68 Which of the following is a rotary type surface grinder?

- Ans ☒ A. Horizontal spindle rotary table
☒ B. Belt grinder
☒ C. Cylindrical grinder
☒ D. Vertical spindle reciprocating table

Question ID : 4410091175960
 Option 1 ID : 4410094638077
 Option 2 ID : 4410094638078
 Option 3 ID : 4410094638079
 Option 4 ID : 4410094638076
 Status : Answered
 Chosen Option : C

Q.69 Why are jigs and fixtures considered essential for mass production?

- Ans ☒ A. They eliminate the use of machine tools
☒ B. They reduce the need for cutting fluids
☒ C. They allow rapid and repeatable machining without repeated setup
☒ D. They increase material hardness

Question ID : 4410091178774
 Option 1 ID : 4410094649244
 Option 2 ID : 4410094649245
 Option 3 ID : 4410094649243
 Option 4 ID : 4410094649242
 Status : Answered
 Chosen Option : C

Q.70 What is gang milling in machining operations?

- Ans ☒ A. Milling that uses multiple cutters mounted on the same arbor
☒ B. Milling using a CNC machine
☒ C. Milling performed by two operators at once
☒ D. Milling done using a gang of machines simultaneously

Question ID : 4410091178764
 Option 1 ID : 4410094649202
 Option 2 ID : 4410094649204
 Option 3 ID : 4410094649205
 Option 4 ID : 4410094649203
 Status : Answered
 Chosen Option : A

Section : Engg Drawing and Workshop

Q.1 In a simple machine, how are the points of application of effort and load defined?

- Ans ☒ A. No specific point for effort or load
- ☒ B. One point for effort and multiple points for load
- ☒ C. One point for both effort and load
- ☒ D. Multiple points for both effort and load

Question ID : 4410091175212

Option 1 ID : 4410094635139

Option 2 ID : 4410094635137

Option 3 ID : 4410094635138

Option 4 ID : 4410094635136

Status : Answered

Chosen Option : C

Q.2 The factor that reduces the efficiency of a machine is:

- Ans ☒ A. friction
- ☒ B. perfectly rigid materials
- ☒ C. lubrication
- ☒ D. smooth surfaces

Question ID : 4410091274372

Option 1 ID : 4410095029579

Option 2 ID : 4410095029582

Option 3 ID : 4410095029580

Option 4 ID : 4410095029581

Status : Answered

Chosen Option : A

Q.3 Which of the following metals has the highest Young's modulus?

- Ans ☒ A. Copper
- ☒ B. Steel
- ☒ C. Aluminium
- ☒ D. Gold

Question ID : 4410091231495

Option 1 ID : 4410094859461

Option 2 ID : 4410094859464

Option 3 ID : 4410094859463

Option 4 ID : 4410094859462

Status : Answered

Chosen Option : D

Q.4 As per BIS, which type of line is used to represent visible outlines and edges in engineering drawings?

- Ans ☒ A. Chain line
- ☒ B. Thin line
- ☒ C. Dashed line
- ☒ D. Continuous thick line

Question ID : 4410091265840

Option 1 ID : 4410094996242

Option 2 ID : 4410094996245

Option 3 ID : 4410094996244

Option 4 ID : 4410094996243

Status : Answered

Chosen Option : D

Q.5 The bottom margin in the drawing sheet is normally taken as:

- Ans ☒ A. 25 mm
☒ B. 10 mm
☒ C. 15 mm
☒ D. 5 mm

Question ID : 4410091261281
 Option 1 ID : 4410094978021
 Option 2 ID : 4410094978023
 Option 3 ID : 4410094978022
 Option 4 ID : 4410094978024
 Status : Answered
 Chosen Option : B

Q.6 Which factor affects the efficiency of drawing clips?

- Ans ☒ A. Colour of clip
☒ B. Elastic strength
☒ C. Transparency
☒ D. Weight

Question ID : 4410091254892
 Option 1 ID : 4410094952543
 Option 2 ID : 4410094952541
 Option 3 ID : 4410094952542
 Option 4 ID : 4410094952540
 Status : Answered
 Chosen Option : D

Q.7 The pencils which are most suitable for double-stroke lettering are:

- Ans ☒ A. 4H and 6H
☒ B. H and 2H
☒ C. 8B and 6B
☒ D. B and 2B

Question ID : 4410091256378
 Option 1 ID : 4410094958410
 Option 2 ID : 4410094958411
 Option 3 ID : 4410094958409
 Option 4 ID : 4410094958412
 Status : Answered
 Chosen Option : A

Q.8 Which of the following is NOT a desirable property for a good electrical insulating material?

- Ans ☒ A. High resistivity
☒ B. High dielectric loss
☒ C. Low thermal expansion
☒ D. Resistance to chemical fumes

Question ID : 4410091175242
 Option 1 ID : 4410094635249
 Option 2 ID : 4410094635248
 Option 3 ID : 4410094635250
 Option 4 ID : 4410094635251
 Status : Answered
 Chosen Option : D

Q.9 Grid references on drawing sheets are provided for which of the following purposes?

- Ans ☒ A. Easy location of details
☒ B. Decoration
☒ C. Border drawing
☒ D. Title block placement

Question ID : 4410091261297
 Option 1 ID : 4410094978094
 Option 2 ID : 4410094978093
 Option 3 ID : 4410094978096
 Option 4 ID : 4410094978095
 Status : Answered
 Chosen Option : A

Q.10 According to the Bureau of Indian Standards (BIS), the recommended ratio of line thickness to letter height in technical lettering is approximately:

- Ans ☒ A. 1 : 20
☒ B. 1 : 25
☒ C. 1 : 5
☒ D. 1 : 10 to 1 : 14

Question ID : 4410091256367
 Option 1 ID : 4410094958367
 Option 2 ID : 4410094958368
 Option 3 ID : 4410094958365
 Option 4 ID : 4410094958366
 Status : Answered
 Chosen Option : D

Q.11 Which of the following instruments measures temperature?

- Ans ☒ A. Barometer
☒ B. Ammeter
☒ C. Hygrometer
☒ D. Thermometer

Question ID : 4410091231528
 Option 1 ID : 4410094859593
 Option 2 ID : 4410094859595
 Option 3 ID : 4410094859596
 Option 4 ID : 4410094859594
 Status : Answered
 Chosen Option : A

Q.12 A simple lever is defined as a lever that has:

- Ans ☒ A. no fulcrum but equal arms
☒ B. one fulcrum, one power arm, and one weight arm
☒ C. two fulcrums and one power arm
☒ D. one fulcrum and multiple weight arms

Question ID : 4410091175219
 Option 1 ID : 4410094635167
 Option 2 ID : 4410094635165
 Option 3 ID : 4410094635166
 Option 4 ID : 4410094635164
 Status : Answered
 Chosen Option : B

Q.13 A ladder is placed against a wall. If the foot of the ladder is 6 m away from the wall and the ladder is 10 m long, at what height of the wall does it reach?

- Ans ☒ A. 10 m
☒ B. 12 m
☒ C. 8 m
☒ D. 6 m

Question ID : 4410091175252
 Option 1 ID : 4410094635286
 Option 2 ID : 4410094635287
 Option 3 ID : 4410094635285
 Option 4 ID : 4410094635284
 Status : Answered
 Chosen Option : C

Q.14 A pyrometer basically works on which principle?

- Ans ☒ A. Convection
☒ B. Heat conduction
☒ C. Radiation measurement
☒ D. Thermal expansion

Question ID : 4410091241838
 Option 1 ID : 4410094900699
 Option 2 ID : 4410094900696
 Option 3 ID : 4410094900698
 Option 4 ID : 4410094900697
 Status : Answered
 Chosen Option : B

Q.15 The number of symmetry lines in a rhombus is:

- Ans ☒ A. 3
☒ B. 4
☒ C. 1
☒ D. 2

Question ID : 4410091264954
 Option 1 ID : 4410094992750
 Option 2 ID : 4410094992751
 Option 3 ID : 4410094992748
 Option 4 ID : 4410094992749
 Status : Answered
 Chosen Option : D

Q.16 What is the major function of lubrication?

- Ans ☒ A. To reduce heat and wear
☒ B. To increase friction
☒ C. To stop motion
☒ D. To increase wear

Question ID : 4410091246585
 Option 1 ID : 4410094919586
 Option 2 ID : 4410094919587
 Option 3 ID : 4410094919588
 Option 4 ID : 4410094919585
 Status : Answered
 Chosen Option : A

Q.17 Which of the following is NOT a simple machine?

- Ans ☒ A. Inclined Plane
☒ B. Lever
☒ C. Screw Jack
☒ D. Printing machine

Question ID : 4410091175223
 Option 1 ID : 4410094635181
 Option 2 ID : 4410094635180
 Option 3 ID : 4410094635182
 Option 4 ID : 4410094635183
 Status : Answered
 Chosen Option : A

Q.18 The major application of Isometric drawings is:

- Ans ☒ A. interior design layouts
☒ B. engineering parts
☒ C. decorative art
☒ D. artistic sketches

Question ID : 4410091261053
 Option 1 ID : 4410094977087
 Option 2 ID : 4410094977086
 Option 3 ID : 4410094977088
 Option 4 ID : 4410094977085
 Status : Answered
 Chosen Option : B

Q.19 Gaps are provided between railway tracks mainly for:

- Ans ☒ A. expansion allowance
☒ B. easy fitting
☒ C. contraction
☒ D. decoration

Question ID : 4410091231520
 Option 1 ID : 4410094859563
 Option 2 ID : 4410094859564
 Option 3 ID : 4410094859562
 Option 4 ID : 4410094859561
 Status : Answered
 Chosen Option : A

Q.20 The protractor with Vernier is generally used in which of the following?

- Ans ☒ A. Carpentry
☒ B. Precision engineering drawing
☒ C. School geometry
☒ D. Rough sketching

Question ID : 4410091255170
 Option 1 ID : 4410094953678
 Option 2 ID : 4410094953680
 Option 3 ID : 4410094953679
 Option 4 ID : 4410094953681
 Status : Answered
 Chosen Option : B

Q.21 In the layout of drawing sheets, why is the title block usually placed at the bottom right corner?

- Ans ☒ A. Balances sheet design
- ☒ B. Easy reference during filing and viewing
- ☒ C. Saves space
- ☒ D. Tradition only

Question ID : 4410091272542
Option 1 ID : 4410095022182
Option 2 ID : 4410095022181
Option 3 ID : 4410095022183
Option 4 ID : 4410095022180
Status : Answered
Chosen Option : B

Q.22 Freehand break lines are usually applied for:

- Ans ☒ A. title block
- ☒ B. large objects
- ☒ C. sheet borders
- ☒ D. small components

Question ID : 4410091272496
Option 1 ID : 4410095021999
Option 2 ID : 4410095021996
Option 3 ID : 4410095021998
Option 4 ID : 4410095021997
Status : Answered
Chosen Option : B

Q.23 If a liquid has a specific gravity of 0.8, it means it is:

- Ans ☒ A. same as water
- ☒ B. lighter than water
- ☒ C. heavier than water
- ☒ D. denser than iron

Question ID : 4410091214241
Option 1 ID : 4410094790347
Option 2 ID : 4410094790346
Option 3 ID : 4410094790345
Option 4 ID : 4410094790348
Status : Not Answered
Chosen Option : --

Q.24 Kinetic energy in translatory motion depends on:

- Ans ☒ A. mass only
- ☒ B. both mass and speed
- ☒ C. speed only
- ☒ D. density

Question ID : 4410091214226
Option 1 ID : 4410094790290
Option 2 ID : 4410094790291
Option 3 ID : 4410094790289
Option 4 ID : 4410094790292
Status : Answered
Chosen Option : C

Q.25 The symbol that is associated with nonfunctional dimensions is:

- Ans ☒ A. () (Parentheses)
☒ B. $\pm$ (Tolerance values)
☒ C. $\bigcirc$ (Circle symbol)
☒ D. $\varnothing$ (Diameter symbol)

Question ID : 4410091273264
 Option 1 ID : 4410095025074
 Option 2 ID : 4410095025075
 Option 3 ID : 4410095025073
 Option 4 ID : 4410095025072
 Status : Answered
 Chosen Option : A

Q.26 The CAD drawings are a modern replacement of which of the following?

- Ans ☒ A. Painting
☒ B. Manual drafting
☒ C. Calligraphy
☒ D. Freehand sketching

Question ID : 4410091257076
 Option 1 ID : 4410094961158
 Option 2 ID : 4410094961156
 Option 3 ID : 4410094961157
 Option 4 ID : 4410094961155
 Status : Answered
 Chosen Option : B

Q.27 Pictorial drawings differ from orthogonal drawings because they:

- Ans ☒ A. show realistic 3D form
☒ B. provide true dimensions
☒ C. require more sheets
☒ D. avoid scaling

Question ID : 4410091261059
 Option 1 ID : 4410094977107
 Option 2 ID : 4410094977105
 Option 3 ID : 4410094977106
 Option 4 ID : 4410094977108
 Status : Answered
 Chosen Option : B

Q.28 The law that governs the conduction process of heat transfer is:

- Ans ☒ A. Boyle's law
☒ B. Newton's law
☒ C. Pascal's law
☒ D. Fourier's law

Question ID : 4410091244497
 Option 1 ID : 4410094911280
 Option 2 ID : 4410094911278
 Option 3 ID : 4410094911281
 Option 4 ID : 4410094911279
 Status : Answered
 Chosen Option : A

Q.29 When a body is just about to move, the friction acting is:

- Ans ☒ A. limiting friction
☒ B. sliding friction
☒ C. static friction
☒ D. rolling friction

Question ID : 4410091268655
 Option 1 ID : 4410095007125
 Option 2 ID : 4410095007126
 Option 3 ID : 4410095007124
 Option 4 ID : 4410095007127
 Status : Answered
 Chosen Option : C

Q.30 What is the primary function of the protractor head in a drafter?

- Ans ☒ A. Fixing compass
☒ B. Holding sheets
☒ C. Drawing circles
☒ D. Angle adjustment and locking

Question ID : 4410091254866
 Option 1 ID : 4410094952444
 Option 2 ID : 4410094952447
 Option 3 ID : 4410094952446
 Option 4 ID : 4410094952445
 Status : Answered
 Chosen Option : D

Section : Aptitude Test

Q.1 In a certain code language, 'BREW' is coded as '3609' and 'WEAR' is coded as '6439'.
 What is the code for 'B' in that language?

- Ans ☒ A. 3
☒ B. 0
☒ C. 6
☒ D. 4

Question ID : 441009694433
 Option 1 ID : 4410092731762
 Option 2 ID : 4410092731765
 Option 3 ID : 4410092731764
 Option 4 ID : 4410092731763
 Status : Answered
 Chosen Option : B

Q.2 A person buys a TV for ₹25,000 and sells it at a profit of 10%. With the money he gets, he buys another TV and sells it at a 8% loss. What is his overall profit?

- Ans ☒ A. ₹300
☒ B. ₹188
☒ C. ₹536
☒ D. ₹200

Question ID : 4410091263582
 Option 1 ID : 4410094987248
 Option 2 ID : 4410094987250
 Option 3 ID : 4410094987247
 Option 4 ID : 4410094987249
 Status : Answered
 Chosen Option : A

Q.3 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 × B' means 'A is the father of B'.
 How is V related to G if 'V @ R & T × H + G'?

- Ans ☒ A. Father
☒ B. Wife's brother
☒ C. Wife's father
☒ D. Brother

Question ID : 441009716970
 Option 1 ID : 4410092821854
 Option 2 ID : 4410092821851
 Option 3 ID : 4410092821852
 Option 4 ID : 4410092821853
 Status : Answered
 Chosen Option : B

Q.4 In a row of 46 people facing north, Anand is 18th from the right end. If Priti sits 6th to the left of Anand, what is Priti's position from the left end of the line?

- Ans ☒ A. 23rd
☒ B. 24th
☒ C. 22nd
☒ D. 25th

Question ID : 441009729394
 Option 1 ID : 4410092871329
 Option 2 ID : 4410092871330
 Option 3 ID : 4410092871328
 Option 4 ID : 4410092871331
 Status : Answered
 Chosen Option : A

Q.5 If 50% of a number exceeds 20% of it by 96, then the number is:

- Ans ☒ A. 300
☒ B. 320
☒ C. 340
☒ D. 360

Question ID : 441009279732
 Option 1 ID : 4410091086890
 Option 2 ID : 4410091086887
 Option 3 ID : 4410091086889
 Option 4 ID : 4410091086888
 Status : Answered
 Chosen Option : B

Q.6 An amount of ₹4,500 is divided among A, B and C in the ratio 5 : 4 : 3. What is the difference between A's and B's shares?

- Ans ☒ A. ₹285
☒ B. ₹578
☒ C. ₹375
☒ D. ₹195

Question ID : 4410091273669
 Option 1 ID : 4410095026712
 Option 2 ID : 4410095026710
 Option 3 ID : 4410095026711
 Option 4 ID : 4410095026713
 Status : Answered
 Chosen Option : C

Q.7 Seven boxes M, N, O, P, S, T and U are kept one over the other but not necessarily in the same order. Only three boxes are kept above M. Only one box is kept between S and M. Only three boxes are kept between S and U. U is kept at some place above M. T is kept immediately below U. N is kept at one of the places above O. P is not kept immediately above or below S. Which box is kept at the lowermost position?

- Ans ☒ A. O
☒ B. U
☒ C. M
☒ D. S

Question ID : 44100920462
 Option 1 ID : 44100981584
 Option 2 ID : 44100981586
 Option 3 ID : 44100981583
 Option 4 ID : 44100981585
 Status : Answered
 Chosen Option : A

Q.8 3 is related to 10 following a certain logic. Following the same logic, 6 is related to 19.
To which of the given options is 5 related, following the same logic?

(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/subtracting/multiplying to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

- Ans ☒ A. 15
☒ B. 14
☒ C. 16
☒ D. 17

Question ID : 441009591129
Option 1 ID : 4410092319630
Option 2 ID : 4410092319629
Option 3 ID : 4410092319631
Option 4 ID : 4410092319632

Status : Answered
Chosen Option : C

Q.9 Evaluate: $30 - [7 + \{28 - (33 - 13)\}]$

- Ans ☒ A. 15
☒ B. 14
☒ C. 13
☒ D. 16

Question ID : 441009279554
Option 1 ID : 4410091086175
Option 2 ID : 4410091086176
Option 3 ID : 4410091086177
Option 4 ID : 4410091086178

Status : Answered
Chosen Option : A

Q.10 Two taps can fill a cistern in 16 hours and 5 hours, respectively. A third tap can empty it in 18 hours. How long will it take to fill the empty cistern, if all of them are opened together?

- Ans ☒ A. $4\frac{124}{149}$ hours
☒ B. $6\frac{124}{149}$ hours
☒ C. $11\frac{124}{149}$ hours
☒ D. $9\frac{124}{149}$ hours

Question ID : 441009278007
Option 1 ID : 4410091079987
Option 2 ID : 4410091079990
Option 3 ID : 4410091079989
Option 4 ID : 4410091079988

Status : Answered
Chosen Option : A

Q.11 Jay ranked 11th from the top and 19th from the bottom in his class. How many students are there in his class?

Ans ☒ A. 29

☒ B. 30

☒ C. 27

☒ D. 28

Question ID : 441009755660

Option 1 ID : 4410092976633

Option 2 ID : 4410092976635

Option 3 ID : 4410092976636

Option 4 ID : 4410092976634

Status : Answered

Chosen Option : A

Q.12 In the following number-pairs, the second number is obtained by applying certain mathematical operations to the first number. Select the pair in which the numbers are related in the same way as are the numbers of the following pairs.

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

10 - 60

4 - 24

Ans ☒ A. 16 - 254

☒ B. 15 - 75

☒ C. 12 - 52

☒ D. 3 - 18

Question ID : 441009590053

Option 1 ID : 4410092315327

Option 2 ID : 4410092315328

Option 3 ID : 4410092315325

Option 4 ID : 4410092315326

Status : Answered

Chosen Option : D

Q.13 At what annual rate of compound interest (compounded annually) will ₹2,000 amount to ₹2,420 in 2 years?

Ans ☒ A. 6%

☒ B. 8%

☒ C. 10%

☒ D. 12%

Question ID : 4410091263565

Option 1 ID : 4410094987182

Option 2 ID : 4410094987180

Option 3 ID : 4410094987179

Option 4 ID : 4410094987181

Status : Answered

Chosen Option : C

Q.14 Simplify $77 - [61 - (60 \div 4 - (16 - 32 \div 4) \div 8)]$.

- Ans ☒ A. 38
☒ B. 34
☒ C. 30
☒ D. 37

Question ID : 441009912715
Option 1 ID : 4410093605113
Option 2 ID : 4410093605114
Option 3 ID : 4410093605111
Option 4 ID : 4410093605112
Status : Answered
Chosen Option : C

Q.15 4 is related to 8 following a certain logic. Following the same logic, 45 is related to 90.
To which of the given options is 25 related, following the same logic?

(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/subtracting/multiplying to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

- Ans ☒ A. 40
☒ B. 45
☒ C. 55
☒ D. 50

Question ID : 441009590401
Option 1 ID : 4410092316717
Option 2 ID : 4410092316718
Option 3 ID : 4410092316720
Option 4 ID : 4410092316719
Status : Answered
Chosen Option : D

Q.16 If the mean proportion of 29 and A is 87, then what is the value of A?

- Ans ☒ A. 263
☒ B. 262
☒ C. 264
☒ D. 261

Question ID : 441009278832
Option 1 ID : 4410091083290
Option 2 ID : 4410091083288
Option 3 ID : 4410091083289
Option 4 ID : 4410091083287
Status : Answered
Chosen Option : D

Q.17 Seven people, A, B, C, D, E, F and G, are sitting in a straight line, facing the north. Only three people sit between E and F. Only one person sits between A and B. A is an immediate neighbour of F. E is not the immediate neighbour of G. C sits to the immediate right of G and is at one of the ends of the line. Who sits second to the right of E in the line?

- Ans ☒ A. F
☒ B. B
☒ C. C
☒ D. D

Question ID : 441009755568

Option 1 ID : 4410092976268

Option 2 ID : 4410092976266

Option 3 ID : 4410092976265

Option 4 ID : 4410092976267

Status : Answered

Chosen Option : D

Q.18 A hollow spherical shell is made of a metal of density 48 g/cm^3 . Its internal and external radius are 5 cm and 6 cm, respectively. What is the weight (in kg) of the shell?

$$\left(\text{Take } \pi = \frac{22}{7} \right)$$

- Ans ☒ A. 15.304
☒ B. 20.21
☒ C. 18.304
☒ D. 20.05

Question ID : 441009280337

Option 1 ID : 4410091089309

Option 2 ID : 4410091089310

Option 3 ID : 4410091089307

Option 4 ID : 4410091089308

Status : Answered

Chosen Option : C

Q.19 Each of the digits in the number 9825461 is arranged in ascending order from left to right. The position(s) of how many digits will remain unchanged as compared to that in the original number?

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

Question ID : 441009586815

Option 1 ID : 4410092302388

Option 2 ID : 4410092302386

Option 3 ID : 4410092302387

Option 4 ID : 4410092302389

Status : Answered

Chosen Option : C

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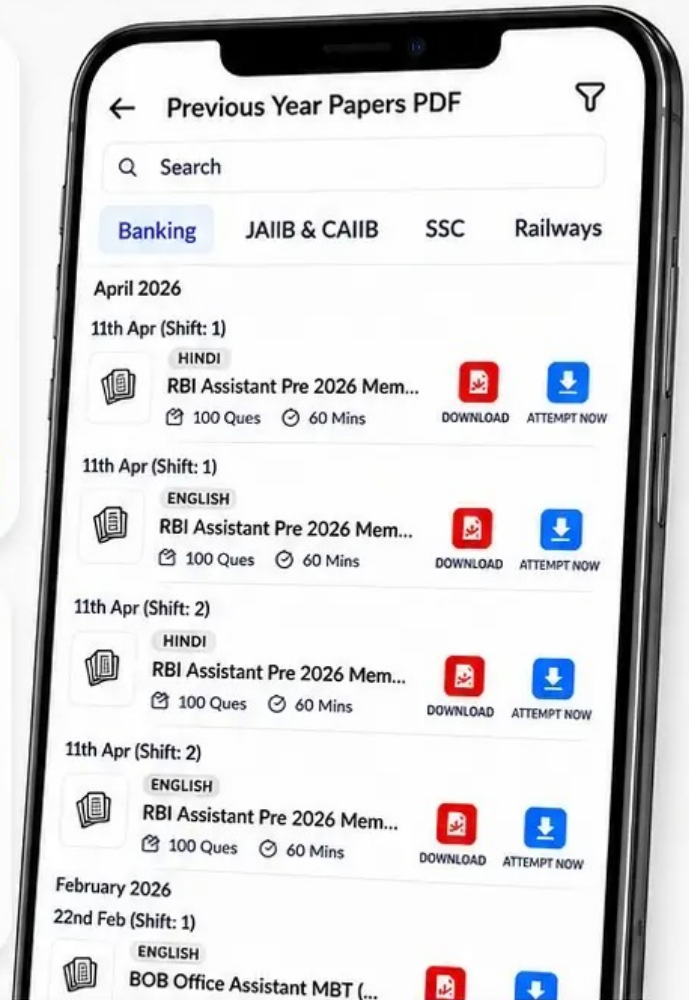
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Q.20 If the principal is ₹20,000, the rate of interest is 7.5% per annum, and the time is 4 years, what is the simple interest?

- Ans ☒ A. ₹5,000
☒ B. ₹8,000
☒ C. ₹6,000
☒ D. ₹7,000

Question ID : 4410091260819

Option 1 ID : 4410094976132

Option 2 ID : 4410094976135

Option 3 ID : 4410094976133

Option 4 ID : 4410094976134

Status : Answered

Chosen Option : C

