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ISRO Technician B

**Previous Year Paper
(Machinist)
21 Jun, 2023 Shift 3**





भारत सरकार GOVERNMENT OF INDIA
अंतरिक्ष विभाग DEPARTMENT OF SPACE

भारतीय अंतरिक्ष अनुसंधान संगठन
INDIAN SPACE RESEARCH ORGANISATION



अंतरिक्ष उपयोग केंद्र SPACE APPLICATIONS CENTRE
अहमदाबाद AHMEDABAD



Participant Id	
Participant Name	
Test Center Name	
Test Date	21/06/2023
Test Time	4:30 PM - 6:30 PM
Subject	Technician B Machinist

Section : Technician B Machinist

Q.1

Due to built up edge formation, which of the followings will happen ?

- a) Improvement in surface finish
- b) No change in surface finish
- c) Surface finish will deteriorate
- d) None of the above

Ans ☒ A. a
☒ B. b
☒ C. c
☒ D. d

Question ID : 2141273694

Option 1 ID : 21412714773

Option 2 ID : 21412714774

Option 3 ID : 21412714775

Option 4 ID : 21412714776

Status : Answered

Chosen Option : C

Q.2

Which mechanism is used in Shaper machine?

- a) Quick cutting mechanism
- b) Quick return mechanism
- c) Hart mechanism
- d) Gyroscope mechanism

Ans  A. a

 B. b

 C. c

 D. d

Question ID : 2141273677

Option 1 ID : 21412714705

Option 2 ID : 21412714706

Option 3 ID : 21412714707

Option 4 ID : 21412714708

Status : Answered

Chosen Option : B

Q.3

Tempering is done for

- a) Increasing hardness
- b) Increasing toughness
- c) Increasing brittleness
- d) Increasing melting point

Ans  A. a

 B. b

 C. c

 D. d

Question ID : 2141273684

Option 1 ID : 21412714733

Option 2 ID : 21412714734

Option 3 ID : 21412714735

Option 4 ID : 21412714736

Status : Answered

Chosen Option : B

Q.4

01 Nanometer = _____ microns

- a) 100
- b) 1/100
- c) 1000
- d) 1/1000

Ans  A. a
 B. b
 C. c
 D. d

Question ID : 2141273715
Option 1 ID : 21412714857
Option 2 ID : 21412714858
Option 3 ID : 21412714859
Option 4 ID : 21412714860
Status : Answered
Chosen Option : A

Q.5

Unit of material removal rate is _____

- a) mm/min
- b) m/min
- c) mm³/min
- d) m/s

Ans  A. a
 B. b
 C. c
 D. d

Question ID : 2141273730
Option 1 ID : 21412714917
Option 2 ID : 21412714918
Option 3 ID : 21412714919
Option 4 ID : 21412714920
Status : Answered
Chosen Option : A

Q.6

In milling and lathe machines, the term DRO indicates ____

- a) Digital Record Out
- b) Digital Record Output
- c) Digital Read Out
- d) Digital Read Output

Ans  A. a
 B. b
 C. c
 D. d

Question ID : 2141273680
Option 1 ID : 21412714717
Option 2 ID : 21412714718
Option 3 ID : 21412714719
Option 4 ID : 21412714720
Status : Answered
Chosen Option : B

Q.7

A NO-GO gauge is used to check the ____ of hole.

- a) Lower limit
- b) Upper limit
- c) Tolerance
- d) Deviation

Ans  A. a
 B. b
 C. c
 D. d

Question ID : 2141273686
Option 1 ID : 21412714741
Option 2 ID : 21412714742
Option 3 ID : 21412714743
Option 4 ID : 21412714744
Status : Answered
Chosen Option : A

Q.8

In CNC machining G 42 indicates ____

- a) Cutter compensation to left
- b) Cutter compensation to right
- c) Cutter compensation cancel
- d) Linear interpolation

Ans  A. a

 B. b

 C. c

 D. d

Question ID : 2141273698

Option 1 ID : 21412714789

Option 2 ID : 21412714790

Option 3 ID : 21412714791

Option 4 ID : 21412714792

Status : Answered

Chosen Option : B

Q.9

Which of the following is not the function of coolant?

- a) Improve surface finish
- b) Cools job and tool
- c) Improve tool life
- d) Lubricates the guideways

Ans  A. a

 B. b

 C. c

 D. d

Question ID : 2141273696

Option 1 ID : 21412714781

Option 2 ID : 21412714782

Option 3 ID : 21412714783

Option 4 ID : 21412714784

Status : Answered

Chosen Option : D

Q.10 A motor cycle tyre is sold for Rs 300/- what is the purchase price if 25% profit is added to it.

- a) Rs. 200
- b) Rs. 220
- c) Rs. 240
- d) Rs. 260

Ans  A. a
 B. b
 C. c
 D. d

Question ID : 2141273739
Option 1 ID : 21412714953
Option 2 ID : 21412714954
Option 3 ID : 21412714955
Option 4 ID : 21412714956
Status : Answered
Chosen Option : C

Q.11 X Ray radiography test is used to determine _____

- a) Yield strength
- b) Ultimate tensile strength
- c) Internal Cracks
- d) Hardness

Ans  A. a
 B. b
 C. c
 D. d

Question ID : 2141273652
Option 1 ID : 21412714605
Option 2 ID : 21412714606
Option 3 ID : 21412714607
Option 4 ID : 21412714608
Status : Answered
Chosen Option : C

Q.12

Which of the following operations can be performed on circular saw

- a) Grooving
- b) Rabbeting
- c) Tenoning
- d) All of above

Ans ☒ A. a
☒ B. b
☒ C. c
☒ D. d

Question ID : 2141273664
Option 1 ID : 21412714653
Option 2 ID : 21412714654
Option 3 ID : 21412714655
Option 4 ID : 21412714656
Status : Answered
Chosen Option : D

Q.13

Volume of cuboid of sides $2x$, $2x$ and $3x$ is _____

- a) $7x^3$
- b) $6x^3$
- c) $7x^2$
- d) $12x^3$

Ans ☒ A. a
☒ B. b
☒ C. c
☒ D. d

Question ID : 2141273706
Option 1 ID : 21412714821
Option 2 ID : 21412714822
Option 3 ID : 21412714823
Option 4 ID : 21412714824
Status : Answered
Chosen Option : D

Q.14

SI unit of length is _____

- a) Meter
- b) Millimeter
- c) Centimeter
- d) Kilometer

Ans ☒ A. a

☐ B. b

☐ C. c

☐ D. d

Question ID : 2141273653

Option 1 ID : 21412714609

Option 2 ID : 21412714610

Option 3 ID : 21412714611

Option 4 ID : 21412714612

Status : Answered

Chosen Option : A

Q.15

What is the square root of 529?

- a) 13
- b) 23
- c) 33
- d) 43

Ans ☐ A. a

☒ B. b

☐ C. c

☐ D. d

Question ID : 2141273737

Option 1 ID : 21412714945

Option 2 ID : 21412714946

Option 3 ID : 21412714947

Option 4 ID : 21412714948

Status : Answered

Chosen Option : B

Q.16

N-m is unit of _____

- a) Pressure
- b) Potential energy
- c) Torque
- d) Surface tension

Ans  A. a
 B. b
 C. c
 D. d

Question ID : 2141273661
Option 1 ID : 21412714641
Option 2 ID : 21412714642
Option 3 ID : 21412714643
Option 4 ID : 21412714644
Status : Answered
Chosen Option : C

Q.17

Rotary motion is converted to linear motion using _____

- a) Spur gear
- b) Bevel gear
- c) Rack and pinion
- d) Helical gear

Ans  A. a
 B. b
 C. c
 D. d

Question ID : 2141273724
Option 1 ID : 21412714893
Option 2 ID : 21412714894
Option 3 ID : 21412714895
Option 4 ID : 21412714896
Status : Answered
Chosen Option : C

Q.18

Kelvin is unit of

- a) Flow rate
- b) Temperature
- c) Pressure
- d) Volume

Ans  A. a
 B. b
 C. c
 D. d

Question ID : 2141273660
Option 1 ID : 21412714637
Option 2 ID : 21412714638
Option 3 ID : 21412714639
Option 4 ID : 21412714640
Status : Answered
Chosen Option : B

Q.19

A triangle is of sides 6 cm, 8 cm and 10 cm. What is its area in m^2 ?

- a) 0.0048
- b) 0.0030
- c) 0.0024
- d) 0.0040

Ans  A. a
 B. b
 C. c
 D. d

Question ID : 2141273708
Option 1 ID : 21412714829
Option 2 ID : 21412714830
Option 3 ID : 21412714831
Option 4 ID : 21412714832
Status : Answered
Chosen Option : A

Q.20

The process of producing a flat seat for a bolt head at opening of drilled hole is ____

- a) Trepanning
- b) Counter boring
- c) Reaming
- d) Counter sinking

Ans  A. a
 B. b
 C. c
 D. d

Question ID : 2141273642
Option 1 ID : 21412714565
Option 2 ID : 21412714566
Option 3 ID : 21412714567
Option 4 ID : 21412714568
Status : Answered
Chosen Option : B

Q.21

SI Unit of energy is

- a) Watt
- b) Joule
- c) Newton
- d) Ampere

Ans  A. a
 B. b
 C. c
 D. d

Question ID : 2141273659
Option 1 ID : 21412714633
Option 2 ID : 21412714634
Option 3 ID : 21412714635
Option 4 ID : 21412714636
Status : Answered
Chosen Option : B

Q.22

Which of the following grades of SS is non-magnetic?

- a) SS 403
- b) SS 316L
- c) SS 416
- d) None of the above

Ans  A. a
 B. b
 C. c
 D. d

Question ID : 2141273649
Option 1 ID : 21412714593
Option 2 ID : 21412714594
Option 3 ID : 21412714595
Option 4 ID : 21412714596
Status : Answered
Chosen Option : B

Q.23

120 degree = _____ radian

- a) $2\pi/3$
- b) $\pi/2$
- c) $4\pi/3$
- d) $2\pi/5$

Ans  A. a
 B. b
 C. c
 D. d

Question ID : 2141273716
Option 1 ID : 21412714861
Option 2 ID : 21412714862
Option 3 ID : 21412714863
Option 4 ID : 21412714864
Status : Answered
Chosen Option : A

Q.24

Due to which property of the material it regains its original shape after applied force is released.

- a) Malleability
- b) Tenacity
- c) Elasticity
- d) Plasticity

Ans  A. a
 B. b
 C. c
 D. d

Question ID : 2141273693
Option 1 ID : 21412714769
Option 2 ID : 21412714770
Option 3 ID : 21412714771
Option 4 ID : 21412714772
Status : Answered
Chosen Option : C

Q.25

As per Indian standard grain size 46 in the grinding wheel comes under which category?

- a) Coarse
- b) Medium
- c) Fine
- d) Very fine

Ans  A. a
 B. b
 C. c
 D. d

Question ID : 2141273733
Option 1 ID : 21412714929
Option 2 ID : 21412714930
Option 3 ID : 21412714931
Option 4 ID : 21412714932
Status : Answered
Chosen Option : B

Q.26

What is included angle (in degrees) between adjacent sides of a regular hexagon?

- a) 60
- b) 120
- c) 145
- d) None of these

Ans  A. a
 B. b
 C. c
 D. d

Question ID : 2141273711
Option 1 ID : 21412714841
Option 2 ID : 21412714842
Option 3 ID : 21412714843
Option 4 ID : 21412714844
Status : Answered
Chosen Option : B

Q.27

Major portion of heat dissipated during machining is absorbed by____

- a) chip
- b) tool
- c) work-piece
- d) tool-holder

Ans  A. a
 B. b
 C. c
 D. d

Question ID : 2141273692
Option 1 ID : 21412714765
Option 2 ID : 21412714766
Option 3 ID : 21412714767
Option 4 ID : 21412714768
Status : Answered
Chosen Option : B

Q.28

What is the property of bamboo wood?

- a) Light weight
- b) Soft
- c) Flexible and strong
- d) None of the above

Ans ☒ A. a

☐ B. b

☐ C. c

☐ D. d

Question ID : 2141273701

Option 1 ID : 21412714801

Option 2 ID : 21412714802

Option 3 ID : 21412714803

Option 4 ID : 21412714804

Status : Answered

Chosen Option : C

Q.29

The value of surface roughness $\nabla\nabla\nabla$ is _____ micron

- a) 8 – 25
- b) 1.6 – 8
- c) 0.025 – 1.6
- d) <0.025

Ans ☐ A. a

☐ B. b

☒ C. c

☐ D. d

Question ID : 2141273710

Option 1 ID : 21412714837

Option 2 ID : 21412714838

Option 3 ID : 21412714839

Option 4 ID : 21412714840

Status : Answered

Chosen Option : C

Q.30

Sine bar is used for

- a) Distance measurement
- b) Angle measurement
- c) Deflection measurement
- d) Radius measurement

Ans  A. a
 B. b
 C. c
 D. d

Question ID : 2141273678
Option 1 ID : 21412714709
Option 2 ID : 21412714710
Option 3 ID : 21412714711
Option 4 ID : 21412714712
Status : Answered
Chosen Option : C

Q.31

In centreless grinding work-piece is supported by _____

- a) Chuck
- b) Centres
- c) Work rest
- d) None of the above

Ans  A. a
 B. b
 C. c
 D. d

Question ID : 2141273732
Option 1 ID : 21412714925
Option 2 ID : 21412714926
Option 3 ID : 21412714927
Option 4 ID : 21412714928
Status : Answered
Chosen Option : D

Q.32 For machining of very small length taper turning which method is most suitable

- a) Tail-stock offset method
- b) Taper turning attachment
- c) Compound slide method
- d) Form tool

Ans ☒ A. a
☒ B. b
☒ C. c
☒ D. d

Question ID : 2141273722
Option 1 ID : 21412714885
Option 2 ID : 21412714886
Option 3 ID : 21412714887
Option 4 ID : 21412714888
Status : Answered
Chosen Option : D

Q.33 How many days a mechanic takes to assemble 64 machines if he assembles 8 machines in 3 days?

- a) 20 days
- b) 22 days
- c) 24 days
- d) 26 days

Ans ☒ A. a
☒ B. b
☒ C. c
☒ D. d

Question ID : 2141273738
Option 1 ID : 21412714949
Option 2 ID : 21412714950
Option 3 ID : 21412714951
Option 4 ID : 21412714952
Status : Answered
Chosen Option : C

Q.34

Least count of Engineer's steel rule is _____

- a) 1 mm
- b) 0.1 mm
- c) 0.2 mm
- d) 0.5 mm

Ans ☒ A. a
☒ B. b
☒ C. c
☒ D. d

Question ID : 2141273654
Option 1 ID : 21412714613
Option 2 ID : 21412714614
Option 3 ID : 21412714615
Option 4 ID : 21412714616
Status : Answered
Chosen Option : D

Q.35

If a circle is of diameter 7 cm, then its area and perimeter approximately are

- a) 4900 mm² and 280 mm
- b) 3850 mm² and 220 mm
- c) 38.5000 m² and 2.20 m
- d) 4.9 m² and 2.8 m

Ans ☒ A. a
☒ B. b
☒ C. c
☒ D. d

Question ID : 2141273703
Option 1 ID : 21412714809
Option 2 ID : 21412714810
Option 3 ID : 21412714811
Option 4 ID : 21412714812
Status : Answered
Chosen Option : B

Q.36

The difference between maximum and minimum limit of a size is known as

- a) Fit
- b) Tolerance
- c) Interference
- d) Standard deviation

Ans  A. a
 B. b
 C. c
 D. d

Question ID : 2141273643
Option 1 ID : 21412714569
Option 2 ID : 21412714570
Option 3 ID : 21412714571
Option 4 ID : 21412714572
Status : Answered
Chosen Option : B

Q.37

In turning operation when a tool is set below the centre of job, then effective rake angle

- a) Increases
- b) Decreases
- c) Remains same
- d) Becomes negative

Ans  A. a
 B. b
 C. c
 D. d



Question ID : 2141273690
Option 1 ID : 21412714757
Option 2 ID : 21412714758
Option 3 ID : 21412714759
Option 4 ID : 21412714760
Status : Answered
Chosen Option : A

Q.38

One degree = _____

- a) 60 second
- b) 10 minutes
- c) 60 minute
- d) 100 minutes

Ans ☒ A. a
☒ B. b
☒ C. c
☒ D. d

Question ID : 2141273705
Option 1 ID : 21412714817
Option 2 ID : 21412714818
Option 3 ID : 21412714819
Option 4 ID : 21412714820
Status : Answered
Chosen Option : C

Q.39

If the recommended cutting speed of Mild Steel is 22 m/min, what is the rotational speed (rpm) for a drill bit of diameter 20 mm?

- a) 350 rpm
- b) 1050 rpm
- c) 700 rpm
- d) 2100 rpm

Ans ☒ A. a
☒ B. b
☒ C. c
☒ D. d

Question ID : 2141273651
Option 1 ID : 21412714601
Option 2 ID : 21412714602
Option 3 ID : 21412714603
Option 4 ID : 21412714604
Status : Answered
Chosen Option : A

Q.40

What is the unit of acceleration of an object?

- a) Metre/second
- b) Metre/second²
- c) Metre/minute
- d) Metre/hour

Ans  A. a
 B. b
 C. c
 D. d

Question ID : 2141273682
Option 1 ID : 21412714725
Option 2 ID : 21412714726
Option 3 ID : 21412714727
Option 4 ID : 21412714728
Status : Answered
Chosen Option : B

Q.41

The sides of rectangle are in ratio of 2:3, if the shorter side is 100 mm, the perimeter of rectangle in mm is _____

- a) 500
- b) 5
- c) 50
- d) 5000

Ans  A. a
 B. b
 C. c
 D. d

Question ID : 2141273713
Option 1 ID : 21412714849
Option 2 ID : 21412714850
Option 3 ID : 21412714851
Option 4 ID : 21412714852
Status : Answered
Chosen Option : A

Q.42

BHN is unit of _____

- a) Toughness
- b) Tensile strength
- c) Young's modulus
- d) Hardness

Ans ☒ A. a
☒ B. b
☒ C. c
☒ D. d

Question ID : 2141273676
Option 1 ID : 21412714701
Option 2 ID : 21412714702
Option 3 ID : 21412714703
Option 4 ID : 21412714704
Status : Answered
Chosen Option : A

Q.43

Machinability index is defined with reference to machinability of

- a) Stainless steel
- b) OHNS steel
- c) Low Carbon Steel
- d) Free cutting steel

Ans ☒ A. a
☒ B. b
☒ C. c
☒ D. d

Question ID : 2141273675
Option 1 ID : 21412714697
Option 2 ID : 21412714698
Option 3 ID : 21412714699
Option 4 ID : 21412714700
Status : Answered
Chosen Option : D

Q.44

Which type of gear is used for transmitting motion between two shafts axes at 90 degree?

- a) Spur gear
- b) Helical gear
- c) Rack and pinion
- d) Bevel Gear

Ans ☒ A. a
☒ B. b
☒ C. c
☒ D. d

Question ID : 2141273729
Option 1 ID : 21412714913
Option 2 ID : 21412714914
Option 3 ID : 21412714915
Option 4 ID : 21412714916
Status : Answered
Chosen Option : D

Q.45

Crater wear of tool is highest in machining of which of the following?

- a) Cast iron
- b) Brass
- c) Teflon
- d) Stainless steel

Ans ☒ A. a
☒ B. b
☒ C. c
☒ D. d

Question ID : 2141273695
Option 1 ID : 21412714777
Option 2 ID : 21412714778
Option 3 ID : 21412714779
Option 4 ID : 21412714780
Status : Answered
Chosen Option : A

Q.46

Cast Iron is used in machine beds because of which property?

- a) Vibration Damping
- b) High malleability
- c) High ductility
- d) High machinability

Ans ☒ A. a

☒ B. b

☒ C. c

☒ D. d

Question ID : 2141273668

Option 1 ID : 21412714669

Option 2 ID : 21412714670

Option 3 ID : 21412714671

Option 4 ID : 21412714672

Status : Answered

Chosen Option : A

Q.47

If the dimension of the male part is larger than female part, the fit is ____

- a) Transition fit
- b) Interference fit
- c) Ringing fit
- d) None of the above

Ans ☒ A. a

☒ B. b

☒ C. c

☒ D. d

Question ID : 2141273718

Option 1 ID : 21412714869

Option 2 ID : 21412714870

Option 3 ID : 21412714871

Option 4 ID : 21412714872

Status : Answered

Chosen Option : B

Q.48

Seasoning of timber is done for _____

- a) Increasing moisture content
- b) Decreasing moisture content
- c) Reducing knots
- d) Determining age of the wood

Ans  A. a
 B. b
 C. c
 D. d

Question ID : 2141273691
Option 1 ID : 21412714761
Option 2 ID : 21412714762
Option 3 ID : 21412714763
Option 4 ID : 21412714764
Status : Answered
Chosen Option : B

Q.49

For mass production of components which type of lathe is most suitable?

- a) Centre Lathe
- b) Capstan Lathe
- c) Turret Lathe
- d) Automatic Lathe

Ans  A. a
 B. b
 C. c
 D. d

Question ID : 2141273723
Option 1 ID : 21412714889
Option 2 ID : 21412714890
Option 3 ID : 21412714891
Option 4 ID : 21412714892
Status : Answered
Chosen Option : C

Q.50

Sum of two consecutive numbers is 43, their product is _____

- a) 262
- b) 363
- c) 462
- d) 562

Ans  A. a
 B. b
 C. c
 D. d

Question ID : 2141273717
Option 1 ID : 21412714865
Option 2 ID : 21412714866
Option 3 ID : 21412714867
Option 4 ID : 21412714868
Status : Answered
Chosen Option : C

Q.51

HSS Stands for _____

- a) High Strength Steel
- b) High Stiffness steel
- c) Heavy Strength steel
- d) High speed steel

Ans  A. a
 B. b
 C. c
 D. d

Question ID : 2141273645
Option 1 ID : 21412714577
Option 2 ID : 21412714578
Option 3 ID : 21412714579
Option 4 ID : 21412714580
Status : Answered
Chosen Option : D

Q.52

Which of the following materials is having maximum brittleness?

- a) Copper
- b) Cast iron
- c) SS 304
- d) Mild steel

Ans  A. a
 B. b
 C. c
 D. d

Question ID : 2141273662
Option 1 ID : 21412714645
Option 2 ID : 21412714646
Option 3 ID : 21412714647
Option 4 ID : 21412714648
Status : Answered
Chosen Option : C

Q.53

Brass is an alloy of which metals?

- a) Copper and aluminium
- b) Copper and lead
- c) Copper and zinc
- d) Copper and tin

Ans  A. a
 B. b
 C. c
 D. d

Question ID : 2141273685
Option 1 ID : 21412714737
Option 2 ID : 21412714738
Option 3 ID : 21412714739
Option 4 ID : 21412714740
Status : Answered
Chosen Option : C

Q.54

In a two start thread, lead is 4 mm. Pitch of the thread is ____

- a) 4 mm
- b) 2 mm
- c) 8 mm
- d) 6 mm

Ans  A. a

 B. b

 C. c

 D. d

Question ID : 2141273726

Option 1 ID : 21412714901

Option 2 ID : 21412714902

Option 3 ID : 21412714903

Option 4 ID : 21412714904

Status : Answered

Chosen Option : B

Q.55

Convert (- 40) degrees Celsius in Fahrenheit.

- a) 32 F
- b) -32 F
- c) 40 F
- d) - 40 F

Ans  A. a

 B. b

 C. c

 D. d

Question ID : 2141273683

Option 1 ID : 21412714729

Option 2 ID : 21412714730

Option 3 ID : 21412714731

Option 4 ID : 21412714732

Status : Answered

Chosen Option : D

Q.56

Volume of cone of radius 3m and height 4 m is _____ cm^3

- a) 12π
- b) 36000000
- c) 12000000π
- d) 36π

Ans  A. a
 B. b
 C. c
 D. d

Question ID : 2141273712
Option 1 ID : 21412714845
Option 2 ID : 21412714846
Option 3 ID : 21412714847
Option 4 ID : 21412714848
Status : Answered
Chosen Option : C

Q.57

The value of Sin 30 is _____

- a) 1.0
- b) 0.5
- c) 0.66
- d) 0.866

Ans  A. a
 B. b
 C. c
 D. d

Question ID : 2141273709
Option 1 ID : 21412714833
Option 2 ID : 21412714834
Option 3 ID : 21412714835
Option 4 ID : 21412714836
Status : Answered
Chosen Option : C

Q.58

A work piece on lathe machine completes 1000 revolutions in 15 seconds.

What is the RPM?

- a) 2500
- b) 1000
- c) 4000
- d) 40000

Ans ☒ A. a
☒ B. b
☒ C. c
☒ D. d

Question ID : 2141273671
Option 1 ID : 21412714681
Option 2 ID : 21412714682
Option 3 ID : 21412714683
Option 4 ID : 21412714684
Status : Answered
Chosen Option : C

Q.59

Pressure is ____

- a) Force per unit area
- b) Force per unit length
- c) Mass per unit volume
- d) Volume per unit mass

Ans ☒ A. a
☒ B. b
☒ C. c
☒ D. d

Question ID : 2141273646
Option 1 ID : 21412714581
Option 2 ID : 21412714582
Option 3 ID : 21412714583
Option 4 ID : 21412714584
Status : Answered
Chosen Option : A

Q.60

The relative axial distance moved by one rotation of bolt in nut is called

- a) Pitch
- b) Crest
- c) Trough
- d) Lead

Ans  A. a
 B. b
 C. c
 D. d

Question ID : 2141273670
Option 1 ID : 21412714677
Option 2 ID : 21412714678
Option 3 ID : 21412714679
Option 4 ID : 21412714680
Status : Answered
Chosen Option : D

Q.61

A cylindrical tank has height of 7 m and diameter of 2000 mm. Find the volume of water that can be contained in it.

- a) 22 Liters
- b) 2200 Liters
- c) 22000 Liters
- d) 14000 Liters

Ans  A. a
 B. b
 C. c
 D. d

Question ID : 2141273704
Option 1 ID : 21412714813
Option 2 ID : 21412714814
Option 3 ID : 21412714815
Option 4 ID : 21412714816
Status : Answered
Chosen Option : B

Q.62

Lead is lighter than

- a) Stainless Steel
- b) Mercury
- c) Aluminium
- d) High speed steel

Ans  A. a
 B. b
 C. c
 D. d

Question ID : 2141273666
Option 1 ID : 21412714661
Option 2 ID : 21412714662
Option 3 ID : 21412714663
Option 4 ID : 21412714664
Status : Answered
Chosen Option : A

Q.63

Unit of feed rate in milling machine is

- a) mm
- b) mm/min
- c) mm/ rev
- d) rev/mm

Ans  A. a
 B. b
 C. c
 D. d

Question ID : 2141273672
Option 1 ID : 21412714685
Option 2 ID : 21412714686
Option 3 ID : 21412714687
Option 4 ID : 21412714688
Status : Answered
Chosen Option : B

Q.64

Stokes is the unit of

- a) Kinetic Energy
- b) Pressure
- c) Viscosity
- d) Gravitational force

Ans ☒ A. a
☒ B. b
☒ C. c
☒ D. d

Question ID : 2141273681
Option 1 ID : 21412714721
Option 2 ID : 21412714722
Option 3 ID : 21412714723
Option 4 ID : 21412714724
Status : Answered
Chosen Option : C

Q.65

Which one of the following is the code for incremental programing?

- a) G18
- b) G19
- c) G90
- d) G91

Ans ☒ A. a
☒ B. b
☒ C. c
☒ D. d

Question ID : 2141273727
Option 1 ID : 21412714905
Option 2 ID : 21412714906
Option 3 ID : 21412714907
Option 4 ID : 21412714908
Status : Answered
Chosen Option : D

Q.66

Which of the following is an example of indirect angle measuring tool?

- a) Bevel protractor
- b) Bevel gauge
- c) Combination set
- d) Marking rule

Ans  A. a
 B. b
 C. c
 D. d

Question ID : 2141273650
Option 1 ID : 21412714597
Option 2 ID : 21412714598
Option 3 ID : 21412714599
Option 4 ID : 21412714600
Status : Answered
Chosen Option : A

Q.67

Ability of material to withstand shock and impact is called

- a) Hardness
- b) Toughness
- c) Ductility
- d) Brittleness

Ans  A. a
 B. b
 C. c
 D. d

Question ID : 2141273656
Option 1 ID : 21412714621
Option 2 ID : 21412714622
Option 3 ID : 21412714623
Option 4 ID : 21412714624
Status : Answered
Chosen Option : B

Q.68

What is size of A3 Paper ?

- a) 210 x 297 mm
- b) 148.5 x 210 mm
- c) 297 x 420 mm
- d) 420 x 594 mm

Ans ☒ A. a
☒ B. b
☒ C. c
☒ D. d

Question ID : 2141273734
Option 1 ID : 21412714933
Option 2 ID : 21412714934
Option 3 ID : 21412714935
Option 4 ID : 21412714936
Status : Answered
Chosen Option : A

Q.69

Carbon content in Mild Steel is _____

- a) Less than 0.3 %
- b) 0.3 % to 0.5 %
- c) 0.5 % to 1 %
- d) 1 % to 1.5 %

Ans ☒ A. a
☒ B. b
☒ C. c
☒ D. d

Question ID : 2141273647
Option 1 ID : 21412714585
Option 2 ID : 21412714586
Option 3 ID : 21412714587
Option 4 ID : 21412714588
Status : Answered
Chosen Option : B

Q.70

The density of mild steel is 7.8 gm/cm^3 . For a mild steel block of $10 \text{ cm} \times 5 \text{ cm} \times 20 \text{ cm}$, the mass is ____ kg

- a) 780
- b) 7.8
- c) 7800
- d) 78

Ans  A. a
 B. b
 C. c
 D. d

Question ID : 2141273714
Option 1 ID : 21412714853
Option 2 ID : 21412714854
Option 3 ID : 21412714855
Option 4 ID : 21412714856
Status : Answered
Chosen Option : C

Q.71

Convert 4.307 mm into microns

- a) 0.004307 microns
- b) 430.7 microns
- c) 0.0004307 microns
- d) 4307 microns

Ans  A. a
 B. b
 C. c
 D. d

Question ID : 2141273702
Option 1 ID : 21412714805
Option 2 ID : 21412714806
Option 3 ID : 21412714807
Option 4 ID : 21412714808
Status : Answered
Chosen Option : D

Q.72

When plan is shown above the elevation, the projection is called _____

- a) First angle
- b) Third angle
- c) Isometric
- d) Perspective

Ans  A. a

 B. b

 C. c

 D. d

Question ID : 2141273720

Option 1 ID : 21412714877

Option 2 ID : 21412714878

Option 3 ID : 21412714879

Option 4 ID : 21412714880

Status : Answered

Chosen Option : A

Q.73

The chisel used for cutting rough surface quickly for turning on wood turning lathe is

- a) Firmer chisel
- b) Gouge chisel
- c) Skew chisel
- d) Mortise chisel

Ans  A. a

 B. b

 C. c

 D. d

Question ID : 2141273657

Option 1 ID : 21412714625

Option 2 ID : 21412714626

Option 3 ID : 21412714627

Option 4 ID : 21412714628

Status : Answered

Chosen Option : C

Q.74

Kerosene is best suited coolant for machining of

- a) Aluminium
- b) Cast iron
- c) Brass
- d) Stainless steel

Ans  A. a

 B. b

 C. c

 D. d

Question ID : 2141273697

Option 1 ID : 21412714785

Option 2 ID : 21412714786

Option 3 ID : 21412714787

Option 4 ID : 21412714788

Status : Answered

Chosen Option : A

Q.75

Metal plates are made by

- a) Forging
- b) Drawing
- c) Extrusion
- d) Rolling

Ans  A. a

 B. b

 C. c

 D. d

Question ID : 2141273679

Option 1 ID : 21412714713

Option 2 ID : 21412714714

Option 3 ID : 21412714715

Option 4 ID : 21412714716

Status : Answered

Chosen Option : D

Q.76

Form tools are used in

- a) Face milling
- b) Taper turning
- c) Welding
- d) Cutting

Ans  A. a
 B. b
 C. c
 D. d

Question ID : 2141273669
Option 1 ID : 21412714673
Option 2 ID : 21412714674
Option 3 ID : 21412714675
Option 4 ID : 21412714676
Status : Answered
Chosen Option : B

Q.77

Circumference of a work piece is to be divided into 60 equal divisions using simple indexing method having 40 worm wheel teeth. Indexing movement will be _____

- a) 12 holes on 18 hole circle
- b) 16 holes on 18 hole circle
- c) 12 holes on 21 hole circle
- d) 16 holes on 21 hole circle

Ans  A. a
 B. b
 C. c
 D. d

Question ID : 2141273700
Option 1 ID : 21412714797
Option 2 ID : 21412714798
Option 3 ID : 21412714799
Option 4 ID : 21412714800
Status : Answered
Chosen Option : B

Q.78

Which one of the following is the code for coolant off?

- a) M02
- b) M03
- c) M09
- d) M30

Ans  A. a
 B. b
 C. c
 D. d

Question ID : 2141273728
Option 1 ID : 21412714909
Option 2 ID : 21412714910
Option 3 ID : 21412714911
Option 4 ID : 21412714912
Status : Answered
Chosen Option : C

Q.79

Which profile is most commonly used in Spur gears teeth?

- a) Cycloid
- b) Helix
- c) Involute
- d) None of these

Ans  A. a
 B. b
 C. c
 D. d

Question ID : 2141273699
Option 1 ID : 21412714793
Option 2 ID : 21412714794
Option 3 ID : 21412714795
Option 4 ID : 21412714796
Status : Answered
Chosen Option : C

Q.80

Included angle of a V block (in degrees) is

- a) 90
- b) 120
- c) 45
- d) 75

Ans  A. a

 B. b

 C. c

 D. d

Question ID : 2141273689

Option 1 ID : 21412714753

Option 2 ID : 21412714754

Option 3 ID : 21412714755

Option 4 ID : 21412714756

Status : Answered

Chosen Option : A

Q.81

Which one is the most ductile material?

- a) Mild steel
- b) Cast iron
- c) Glass
- d) Tool steel

Ans  A. a

 B. b

 C. c

 D. d

Question ID : 2141273721

Option 1 ID : 21412714881

Option 2 ID : 21412714882

Option 3 ID : 21412714883

Option 4 ID : 21412714884

Status : Answered

Chosen Option : A

Q.82

Which of the following tool's head is made from wood?

- a) Cross peen hammer
- b) Claw hammer
- c) Ball peen hammer
- d) Mallet

Ans  A. a
 B. b
 C. c
 D. d

Question ID : 2141273688
Option 1 ID : 21412714749
Option 2 ID : 21412714750
Option 3 ID : 21412714751
Option 4 ID : 21412714752
Status : Answered
Chosen Option : D

Q.83

Wringing is term used in

- a) Metal testing
- b) Calibration of instruments
- c) Defect in Vernier Calliper
- d) Slip gauge

Ans  A. a
 B. b
 C. c
 D. d

Question ID : 2141273658
Option 1 ID : 21412714629
Option 2 ID : 21412714630
Option 3 ID : 21412714631
Option 4 ID : 21412714632
Status : Answered
Chosen Option : D

Q.84

What are fundamental units?

- a) Length, Mass, Volume
- b) Length, Mass, Time
- c) Length, Mass, Area
- d) Length, Pressure, Volume

Ans  A. a

 B. b

 C. c

 D. d

Question ID : 2141273735

Option 1 ID : 21412714937

Option 2 ID : 21412714938

Option 3 ID : 21412714939

Option 4 ID : 21412714940

Status : Answered

Chosen Option : B

Q.85

12.335 Km = _____ meter

- a) 1233.5
- b) 123.35
- c) 12335
- d) 0.12335

Ans  A. a

 B. b

 C. c

 D. d

Question ID : 2141273707

Option 1 ID : 21412714825

Option 2 ID : 21412714826

Option 3 ID : 21412714827

Option 4 ID : 21412714828

Status : Answered

Chosen Option : C

Q.86

In a Vernier calliper 50 divisions of Vernier scale occupy 49 divisions on the main scale. The main scale reading is 30 mm and 20th Vernier scale division coincides with main scale. What is the reading (in mm)?

- a) 30.4
- b) 30.04
- c) 30.02
- d) 30.2

Ans  A. a
 B. b
 C. c
 D. d

Question ID : 2141273687
Option 1 ID : 21412714745
Option 2 ID : 21412714746
Option 3 ID : 21412714747
Option 4 ID : 21412714748
Status : Answered
Chosen Option : A

Q.87

Cutting speed in turning operation depends on which of the parameters.

- a) Length of work-piece
- b) Diameter of work-piece
- c) Material of work-piece
- d) Material of Work-piece and Tool Material

Ans  A. a
 B. b
 C. c
 D. d

Question ID : 2141273641
Option 1 ID : 21412714561
Option 2 ID : 21412714562
Option 3 ID : 21412714563
Option 4 ID : 21412714564
Status : Answered
Chosen Option : D

Q.88

Which of the following principles is used in Jig and Fixtures?

- a) 2-3-1 principle
- b) 3-2-1 principle
- c) 1-2-3 principle
- d) None of the above

Ans  A. a
 B. b
 C. c
 D. d

Question ID : 2141273665
Option 1 ID : 21412714657
Option 2 ID : 21412714658
Option 3 ID : 21412714659
Option 4 ID : 21412714660
Status : Answered
Chosen Option : A

Q.89

A jig is used for _____

- a) Holding the job and guiding the tool
- b) Holding the job only
- c) setting work piece on machine
- d) Easy movement of job

Ans  A. a
 B. b
 C. c
 D. d

Question ID : 2141273663
Option 1 ID : 21412714649
Option 2 ID : 21412714650
Option 3 ID : 21412714651
Option 4 ID : 21412714652
Status : Answered
Chosen Option : B

Q.90

Density of Aluminum is _____ (gm/cm³)

- a) 1.5
- b) 2.7
- c) 4.6
- d) 7.8

Ans  A. a
 B. b
 C. c
 D. d

Question ID : 2141273673
Option 1 ID : 21412714689
Option 2 ID : 21412714690
Option 3 ID : 21412714691
Option 4 ID : 21412714692
Status : Answered
Chosen Option : B

Q.91

In a hole basis system, the fundamental deviation for the hole is _____

- a) 0 mm
- b) 0.8 microns
- c) 0.01 mm
- d) 0.01 microns

Ans  A. a
 B. b
 C. c
 D. d

Question ID : 2141273644
Option 1 ID : 21412714573
Option 2 ID : 21412714574
Option 3 ID : 21412714575
Option 4 ID : 21412714576
Status : Answered
Chosen Option : B

Q.92

What is the LCM of 12, 18, 6, 36 ?

- a) 12
- b) 18
- c) 36
- d) 42

Ans ☒ A. a
☒ B. b
☒ C. c
☒ D. d

Question ID : 2141273736
Option 1 ID : 21412714941
Option 2 ID : 21412714942
Option 3 ID : 21412714943
Option 4 ID : 21412714944
Status : Answered
Chosen Option : C

Q.93

Hot hardness of which of the following tool material is highest

- a) Tungsten Carbide
- b) High speed steel
- c) High carbon steel
- d) Medium Carbon Steel

Ans ☒ A. a
☒ B. b
☒ C. c
☒ D. d

Question ID : 2141273674
Option 1 ID : 21412714693
Option 2 ID : 21412714694
Option 3 ID : 21412714695
Option 4 ID : 21412714696
Status : Answered
Chosen Option : A

Q.94

Emery paper No. 320 is smoother than Emery paper no.

- a) 100
- b) 400
- c) 1000
- d) None of the above

Ans ☒ A. a

☐ B. b

☐ C. c

☐ D. d

Question ID : 2141273667
Option 1 ID : 21412714665
Option 2 ID : 21412714666
Option 3 ID : 21412714667
Option 4 ID : 21412714668
Status : Answered
Chosen Option : A

Q.95

Cyaniding and Nitriding are two methods of _____

- a) Hardening
- b) Case Hardening
- c) Tempering
- d) Normalizing

Ans ☐ A. a

☒ B. b

☐ C. c

☐ D. d

Question ID : 2141273731
Option 1 ID : 21412714921
Option 2 ID : 21412714922
Option 3 ID : 21412714923
Option 4 ID : 21412714924
Status : Answered
Chosen Option : A

Q.96

Which one is non-metal?

- a) Mercury
- b) Graphite
- c) Brass
- d) Iron

Ans  A. a
 B. b
 C. c
 D. d

Question ID : 2141273740
Option 1 ID : 21412714957
Option 2 ID : 21412714958
Option 3 ID : 21412714959
Option 4 ID : 21412714960
Status : Answered
Chosen Option : C

Q.97

M03 is a code in CNC programming for _____

- a) Spindle rotation clockwise
- b) Spindle rotation anti-clockwise
- c) Spindle rotation stop
- d) None of the above

Ans  A. a
 B. b
 C. c
 D. d

Question ID : 2141273725
Option 1 ID : 21412714897
Option 2 ID : 21412714898
Option 3 ID : 21412714899
Option 4 ID : 21412714900
Status : Answered
Chosen Option : B

Q.98

Density of mild steel is _____ gm/cm³

- a) 7800
- b) 7.8
- c) 2700
- d) 2.7

Ans  A. a
 B. b
 C. c
 D. d

Question ID : 2141273655
Option 1 ID : 21412714617
Option 2 ID : 21412714618
Option 3 ID : 21412714619
Option 4 ID : 21412714620
Status : Answered
Chosen Option : B

Q.99

What is the minimum percent of Carbon in Iron-Carbon system to define a cast iron?

- a) 0.5
- b) 0.8
- c) 1.2
- d) 2.0

Ans  A. a
 B. b
 C. c
 D. d

Question ID : 2141273648
Option 1 ID : 21412714589
Option 2 ID : 21412714590
Option 3 ID : 21412714591
Option 4 ID : 21412714592
Status : Answered
Chosen Option : D

Q.100

The included angle for the British standard whit worth thread is ____

- a) 29°
- b) 47.5°
- c) 55°
- d) 60°

Ans  A. a
 B. b
 C. c
 D. d

Question ID : 2141273719

Option 1 ID : 21412714873

Option 2 ID : 21412714874

Option 3 ID : 21412714875

Option 4 ID : 21412714876

Status : Answered

Chosen Option : B

