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Govt. Of India, Department Of Space
Indian Space Research Organisation
Human Space Flight Centre (HSFC)



Participant ID	
Participant Name	
Test Center Name	
Test Date	02/01/2025
Test Time	1:00 PM - 2:30 PM
Subject	Technician B (Fitter)

Section : MCQ Questions

Q.1

What is the formula for the rivet interference for forming round head in riveting?

- a) Rivet dia x (1.3 ~1.6)
- b) Rivet Length x (1.3 ~1.6)
- c) Rivet dia x (0.8 ~1.2)
- d) Rivet Length x (0.8 ~1.2)

Ans 1. a

2. b

3. c

4. d

Question ID : 8199736161

Option 1 ID : 81997323997

Option 2 ID : 81997323998

Option 3 ID : 81997323999

Option 4 ID : 81997324000

Status : Answered

Chosen Option : 3

Q.2

In zig zag riveting the polygon formation is

- a) Triangular
- b) Chain
- c) Pentagon
- d) Hexagon

Ans 1. a

2. b

3. c

4. d

Question ID : 8199736162

Option 1 ID : 81997324001

Option 2 ID : 81997324002

Option 3 ID : 81997324003

Option 4 ID : 81997324004

Status : Answered

Chosen Option : 3

Q.3

For same cutting speed, larger diameter drills have

- a) Lesser rpm
- b) Higher rpm
- c) Same rpm
- d) None for the above

Ans 1. a

2. b

3. c

4. d

Question ID : 8199736174

Option 1 ID : 81997324049

Option 2 ID : 81997324050

Option 3 ID : 81997324051

Option 4 ID : 81997324052

Status : Answered

Chosen Option : 2

Q.4

Heat treatment by which the toughness and shock resistance is induced in Steel is

- a) Annealing
- b) Normalising
- c) Tempering
- d) Hardening

Ans 1. a
 2. b
 3. c
 4. d

Question ID : 8199736190
Option 1 ID : 81997324113
Option 2 ID : 81997324114
Option 3 ID : 81997324115
Option 4 ID : 81997324116
Status : Answered
Chosen Option : 2

Q.5

Which drill jig is ideal for drilling thin and soft workpieces for avoiding bending

- a) Trunnion jig
- b) Plate jig
- c) Sandwich jig
- d) Box jig

Ans 1. a
 2. b
 3. c
 4. d

Question ID : 8199736195
Option 1 ID : 81997324133
Option 2 ID : 81997324134
Option 3 ID : 81997324135
Option 4 ID : 81997324136
Status : Answered
Chosen Option : 1

Q.6

Overall equipment effectiveness (OEE) is :

- a) Availability x Productivity x Quality
- b) Productivity x Maintainability x Quality
- c) Quality x Availability x Repeatability
- d) Maintainability x Repeatability x Quality

Ans 1. a

2. b

3. c

4. d

Question ID : 8199736186

Option 1 ID : 81997324097

Option 2 ID : 81997324098

Option 3 ID : 81997324099

Option 4 ID : 81997324100

Status : Answered

Chosen Option : 2

Q.7

Which among the following is NOT true for Reaming?

- a) Produces close tolerance holes
- b) Produces high quality surface finish
- c) Produces high tolerance threads
- d) Finishes small holes which cannot be finished by other processes

Ans 1. a

2. b

3. c

4. d

Question ID : 8199736175

Option 1 ID : 81997324053

Option 2 ID : 81997324054

Option 3 ID : 81997324055

Option 4 ID : 81997324056

Status : Answered

Chosen Option : 3

Q.8

The inter-locked air bubbles and pockets in the hydraulic pipe lines and components can cause

- a) Block
- b) Effervescence
- c) Cavitation
- d) Airlock

Ans 1. a
 2. b
 3. c
 4. d

Question ID : 8199736199
Option 1 ID : 81997324149
Option 2 ID : 81997324150
Option 3 ID : 81997324151
Option 4 ID : 81997324152
Status : Answered
Chosen Option : 3

Q.9

Which among the following caste iron types is also called as Ductile cast iron?

- a) Malleable cast iron
- b) Nodular cast iron
- c) Grey cast iron
- d) White cast iron

Ans 1. a
 2. b
 3. c
 4. d

Question ID : 8199736177
Option 1 ID : 81997324061
Option 2 ID : 81997324062
Option 3 ID : 81997324063
Option 4 ID : 81997324064
Status : Answered
Chosen Option : 2

Q.10

When a dimension is expressed as $25^{+0.035/-0.025}$ mm, then the tolerance

is

- a) 0.035mm
- b) 0.025mm
- c) 0.01mm
- d) 0.06mm

Ans 1. a
 2. b
 3. c
 4. d

Question ID : 8199736230

Option 1 ID : 81997324273

Option 2 ID : 81997324274

Option 3 ID : 81997324275

Option 4 ID : 81997324276

Status : Answered

Chosen Option : 3

Q.11

The type of twist drills used for soft metals like aluminium is called

- a) General helix drill
- b) Slow helix drill
- c) Quick helix drill
- d) Medium helix drill

Ans 1. a
 2. b
 3. c
 4. d

Question ID : 8199736172

Option 1 ID : 81997324041

Option 2 ID : 81997324042

Option 3 ID : 81997324043

Option 4 ID : 81997324044

Status : Answered

Chosen Option : 1

Q.12

----- is an example of transition fit

- a) Running fit
- b) Expansion fit
- c) Wringing fit
- d) Shrinkage fit

- Ans
- 1. a
 - 2. b
 - 3. c
 - 4. d

Question ID : 8199736214
Option 1 ID : 81997324209
Option 2 ID : 81997324210
Option 3 ID : 81997324211
Option 4 ID : 81997324212
Status : Answered
Chosen Option : 3

Q.13

According to BIS, surface roughness (two triangle) range $\nabla\nabla$ for finish in μm shown

- a) 0.05 to 0.1
- b) 1.6 to 6.3
- c) 0.2 to 0.8
- d) 12.5 to 25

- Ans
- 1. a
 - 2. b
 - 3. c
 - 4. d

Question ID : 8199736231
Option 1 ID : 81997324277
Option 2 ID : 81997324278
Option 3 ID : 81997324279
Option 4 ID : 81997324280
Status : Answered
Chosen Option : 1

Q.14

How many number of cuts will be there over a length of 10mm for a 250mm long Bastard file ?

- a) 11
- b) 15
- c) 10
- d) 30

Ans 1. a
 2. b
 3. c
 4. d

Question ID : 8199736156
Option 1 ID : 81997323977
Option 2 ID : 81997323978
Option 3 ID : 81997323979
Option 4 ID : 81997323980
Status : Answered
Chosen Option : 2

Q.15

Which among the following is not correct for a long arc length?

- a) Unstable Arc
- b) Causes oxidation of weld metal
- c) Higher weld deposition with narrow bead width
- d) Poor fusion and penetration

Ans 1. a
 2. b
 3. c
 4. d

Question ID : 8199736170
Option 1 ID : 81997324033
Option 2 ID : 81997324034
Option 3 ID : 81997324035
Option 4 ID : 81997324036
Status : Answered
Chosen Option : 4

Q.16

Fasteners belonging to property class 5.8 are made of

- a) Quenched and tempered medium carbon steel
- b) Low or medium carbon steel
- c) Quenched and tempered alloy steel
- d) Medium carbon steel with additives

Ans 1. a
 2. b
 3. c
 4. d

Question ID : 8199736188
Option 1 ID : 81997324105
Option 2 ID : 81997324106
Option 3 ID : 81997324107
Option 4 ID : 81997324108
Status : Answered
Chosen Option : 3

Q.17

The actual length is 1m. The length of the drawing is 5cm. Find the representative factor.

- a) 1/5
- b) 20
- c) 1/20
- d) 5

Ans 1. a
 2. b
 3. c
 4. d

Question ID : 8199736228
Option 1 ID : 81997324265
Option 2 ID : 81997324266
Option 3 ID : 81997324267
Option 4 ID : 81997324268
Status : Answered
Chosen Option : 3

Q.18

Drill size for a reamed hole is:

- a) Drill size = Reamed size – (Undersize + Oversize)
- b) Drill size = Reamed size + (Undersize + Oversize)
- c) Drill size = Reamed size – (Undersize - Oversize)
- d) Drill size = Reamed size + (Undersize - Oversize)

Ans 1. a

2. b

3. c

4. d

Question ID : 8199736176

Option 1 ID : 81997324057

Option 2 ID : 81997324058

Option 3 ID : 81997324059

Option 4 ID : 81997324060

Status : Answered

Chosen Option : 1

Q.19

What is the efficiency of a machine, if the effort required to lift a load of 1000 kg is 400 kg and the velocity ratio is 5?

- a) 80%
- b) 60%
- c) 50%
- d) 40%

Ans 1. a

2. b

3. c

4. d

Question ID : 8199736211

Option 1 ID : 81997324197

Option 2 ID : 81997324198

Option 3 ID : 81997324199

Option 4 ID : 81997324200

Status : Answered

Chosen Option : 4

Q.20

Carbide cutting tools will have

- a) Zero rake angle
- b) Positive rake angle
- c) Negative rake angle
- d) None of these

Ans 1. a
 2. b
 3. c
 4. d

Question ID : 8199736185
Option 1 ID : 81997324093
Option 2 ID : 81997324094
Option 3 ID : 81997324095
Option 4 ID : 81997324096
Status : Answered
Chosen Option : 1

Q.21

कैप नट का उपयोग किया जाता है:

- a) बहिर्विष्ट तंतुओं को सुरक्षा देने के लिए
- b) नट को ढीला पड़ने से रोकने के लिए
- c) लॉकिंग कार्य के लिए मानक नट के साथ
- d) उपर्युक्त में से कोई नहीं

Ans 1. a
 2. b
 3. c
 4. d

Question ID : 8199736189
Option 1 ID : 81997324109
Option 2 ID : 81997324110
Option 3 ID : 81997324111
Option 4 ID : 81997324112
Status : Answered
Chosen Option : 3

Q.22

What do you mean by "Planishing" operation in Sheet Metal Working ?

- a) To stretch a piece of metal by hitting it with a round head hammer
- b) To clean dirt and oxide from metal by immersing it in an acid bath
- c) To make a metal surface smooth by hammering it over a stake or block
- d) To raise a strip of metal around

Ans 1. a
 2. b
 3. c
 4. d

Question ID : 8199736157
Option 1 ID : 81997323981
Option 2 ID : 81997323982
Option 3 ID : 81997323983
Option 4 ID : 81997323984
Status : Answered
Chosen Option : 2

Q.23

For an interference fit, the difference between the size of the hole and the shaft before assembly is

- a) Zero
- b) Negative
- c) Positive
- d) None of the above

Ans 1. a
 2. b
 3. c
 4. d

Question ID : 8199736179
Option 1 ID : 81997324069
Option 2 ID : 81997324070
Option 3 ID : 81997324071
Option 4 ID : 81997324072
Status : Answered
Chosen Option : 2

Q.24

Galvanizing is the process in which steel is coated with

- a) Copper
- b) Tin
- c) Zinc
- d) Lead

Ans 1. a
 2. b
 3. c
 4. d

Question ID : 8199736191
Option 1 ID : 81997324117
Option 2 ID : 81997324118
Option 3 ID : 81997324119
Option 4 ID : 81997324120
Status : Answered
Chosen Option : 3

Q.25

Which among the following comes under Machine safety Category in

Work Shop Safety

- a) Don't leave the machine which is in motion.
- b) Never lean on the machine
- c) Clean the machine only when it is not in motion
- d) Do not attempt operating the machine until you know how to operate it properly.

Ans 1. a
 2. b
 3. c
 4. d

Question ID : 8199736224
Option 1 ID : 81997324249
Option 2 ID : 81997324250
Option 3 ID : 81997324251
Option 4 ID : 81997324252
Status : Answered
Chosen Option : 4

Q.26

Heat treatment process carried out on steel to soften the steel and improve the machinability.

- a) Carburising
- b) Annealing
- c) Nitriding
- d) None of the above

Ans 1. a

2. b

3. c

4. d

Question ID : 8199736220

Option 1 ID : 81997324233

Option 2 ID : 81997324234

Option 3 ID : 81997324235

Option 4 ID : 81997324236

Status : Answered

Chosen Option : 2

Q.27

Rectifier set is used to:

- a) Convert A.C. into D.C. welding supply
- b) Convert D.C. into A.C. welding supply
- c) Stepping up A.C. supply
- d) Stepping Down A.C. Supply

Ans 1. a

2. b

3. c

4. d

Question ID : 8199736167

Option 1 ID : 81997324021

Option 2 ID : 81997324022

Option 3 ID : 81997324023

Option 4 ID : 81997324024

Status : Answered

Chosen Option : 1

Q.28

The chemical compound used for rust removal from the joint before soldering is called

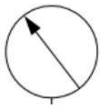
- a) Slag
- b) Flux
- c) Primer
- d) Etchant

Ans 1. a
 2. b
 3. c
 4. d

Question ID : 8199736159
Option 1 ID : 81997323989
Option 2 ID : 81997323990
Option 3 ID : 81997323991
Option 4 ID : 81997323992
Status : Answered
Chosen Option : 2

Q.29

Identify the Pneumatic component symbol given below



- a) Pressure gauge
- b) Filter
- c) Lubricator
- d) Dryer

Ans 1. a
 2. b
 3. c
 4. d

Question ID : 8199736200
Option 1 ID : 81997324153
Option 2 ID : 81997324154
Option 3 ID : 81997324155
Option 4 ID : 81997324156
Status : Answered
Chosen Option : 4

Q.30

Which Type of drill is used for drilling normal low carbon steels?

- a) Type W
- b) Type S
- c) Type N
- d) Type A

Ans 1. a
 2. b
 3. c
 4. d

Question ID : 8199736173
Option 1 ID : 81997324045
Option 2 ID : 81997324046
Option 3 ID : 81997324047
Option 4 ID : 81997324048
Status : Answered
Chosen Option : 3

Q.31

Name the tool used for hole alignment during riveting

- a) Rivet Snap
- b) Rivet Set
- c) Dolly
- d) Drift

Ans 1. a
 2. b
 3. c
 4. d

Question ID : 8199736163
Option 1 ID : 81997324005
Option 2 ID : 81997324006
Option 3 ID : 81997324007
Option 4 ID : 81997324008
Status : Answered
Chosen Option : 1

Q.32

निम्नलिखित में से असुरक्षित वर्कशॉप प्रथा बताइए

- a) निलंबित लोड के नीचे नहीं चलना
- b) गीले हाथ से वैद्युत उपकरण नहीं छूना
- c) मशीन बंद करने से पहले ही माप ले लेना
- d) टूटे हुए या क्षतिग्रस्त औज़ार को तुरंत प्रतिस्थापित करना

Ans 1. a
 2. b
 3. c
 4. d

Question ID : 8199736222
Option 1 ID : 81997324241
Option 2 ID : 81997324242
Option 3 ID : 81997324243
Option 4 ID : 81997324244
Status : Answered
Chosen Option : 3

Q.33

यदि चरम प्रतिबल 40 kg/mm^2 और सुरक्षा कारक 2 है, तो 7 मि.मी. व्यास के धातु के तार से कितने वज़न का भार सुरक्षित रूप से निलंबित किया जा सकता है?

- a) 502 kg
- b) 770 kg
- c) 650 kg
- d) 785 kg

Ans 1. a
 2. b
 3. c
 4. d

Question ID : 8199736209
Option 1 ID : 81997324189
Option 2 ID : 81997324190
Option 3 ID : 81997324191
Option 4 ID : 81997324192
Status : Answered
Chosen Option : 4

Q.34

The maximum interference in mm after assembly between a bush of size $\text{Ø}20 \text{ mm } (+0.06/+0.03)$ and shaft of size $\text{Ø}20 \text{ mm } (+0.05/-0.02)$ mm is

- a) 0.11 mm
- b) 0.02 mm
- c) 0.01 mm
- d) 0.04 mm

Ans 1. a

2. b

3. c

4. d

Question ID : 8199736216

Option 1 ID : 81997324217

Option 2 ID : 81997324218

Option 3 ID : 81997324219

Option 4 ID : 81997324220

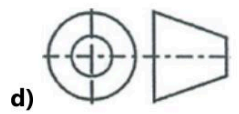
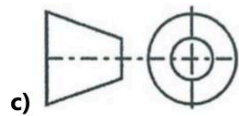
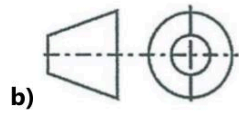
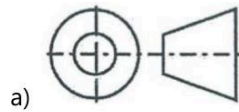
Status : Answered

Chosen Option : 2

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Q.35

Representation of Third angle projection is



Ans ✓ 1. a

✗ 2. b

✗ 3. c

✗ 4. d

Question ID : 8199736227

Option 1 ID : 81997324261

Option 2 ID : 81997324262

Option 3 ID : 81997324263

Option 4 ID : 81997324264

Status : Answered

Chosen Option : 3

Q.36

Oil based fire belongs to which class of fire

- a) CLASS A
- b) CLASS B
- c) CLASS C
- d) CLASS D

Ans 1. a

2. b

3. c

4. d

Question ID : 8199736226

Option 1 ID : 81997324257

Option 2 ID : 81997324258

Option 3 ID : 81997324259

Option 4 ID : 81997324260

Status : Answered

Chosen Option : 2

Q.37

What is the colour of cylinder for storing Acetylene gas for oxy acetylene welding?

- a) Maroon
- b) Orange
- c) Black
- d) Yellow

Ans 1. a

2. b

3. c

4. d

Question ID : 8199736165

Option 1 ID : 81997324013

Option 2 ID : 81997324014

Option 3 ID : 81997324015

Option 4 ID : 81997324016

Status : Answered

Chosen Option : 1

Q.38

A.C. welding supply has:

- a) low ampere - high voltage
- b) high ampere - high voltage
- c) high ampere - low voltage
- d) low ampere - low voltage

Ans 1. a
 2. b
 3. c
 4. d

Question ID : 8199736166
Option 1 ID : 81997324017
Option 2 ID : 81997324018
Option 3 ID : 81997324019
Option 4 ID : 81997324020
Status : Answered
Chosen Option : 3

Q.39

Muntz metal is an alloy of

- a) Copper and Zinc
- b) Copper and Tin
- c) Copper and Nickel
- d) Copper and Lead

Ans 1. a
 2. b
 3. c
 4. d

Question ID : 8199736180
Option 1 ID : 81997324073
Option 2 ID : 81997324074
Option 3 ID : 81997324075
Option 4 ID : 81997324076
Status : Answered
Chosen Option : 1

Q.40

Calorising is the process of coating steel with

- a) Lead
- b) Zinc powder
- c) Tin
- d) Aluminium powder

Ans 1. a
 2. b
 3. c
 4. d

Question ID : 8199736193
Option 1 ID : 81997324125
Option 2 ID : 81997324126
Option 3 ID : 81997324127
Option 4 ID : 81997324128
Status : Answered
Chosen Option : 4

Q.41

ऊर्जा आपूर्ति के धनात्मक टर्मिनल से संयोजित आर्क वेलडन इलेक्ट्रोड को कहा जाता है:

- a) सरल (सीधी) ध्रुवता
- b) व्युत्क्रम ध्रुवता
- c) प्रत्यक्ष ध्रुवता
- d) अप्रत्यक्ष ध्रुवता

Ans 1. a
 2. b
 3. c
 4. d

Question ID : 8199736168
Option 1 ID : 81997324025
Option 2 ID : 81997324026
Option 3 ID : 81997324027
Option 4 ID : 81997324028
Status : Answered
Chosen Option : 1

Q.42

Which type of Rivet is used for avoiding projection in assembly?

- a) Pan Head Rivet
- b) Conical Head Rivet
- c) Counter Sunk Rivet
- d) Snap Head Rivet

Ans 1. a
 2. b
 3. c
 4. d

Question ID : 8199736160
Option 1 ID : 81997323993
Option 2 ID : 81997323994
Option 3 ID : 81997323995
Option 4 ID : 81997323996
Status : Answered
Chosen Option : 3

Q.43

A resistor of 6 ohms is connected in series to a junction where two resistors of 2 ohms and 4 ohms are connected in parallel. If the voltage connected across the circuit is 6V, what is the current flow?

- a) 0.82 Amp
- b) 1.87 Amp
- c) 1.58 Amp
- d) 2.00 Amp

Ans 1. a
 2. b
 3. c
 4. d

Question ID : 8199736208
Option 1 ID : 81997324185
Option 2 ID : 81997324186
Option 3 ID : 81997324187
Option 4 ID : 81997324188
Status : Answered
Chosen Option : 1

Q.44

The tension in the bolt which creates a clamping force is called

- a) Yield strength
- b) Preload
- c) Tensile strength
- d) Endurance limit

Ans 1. a

2. b

3. c

4. d

Question ID : 8199736187

Option 1 ID : 81997324101

Option 2 ID : 81997324102

Option 3 ID : 81997324103

Option 4 ID : 81997324104

Status : Answered

Chosen Option : 3

Q.45

Lower Critical temperature for plain carbon steels

- a) 852°C
- b) 810°C
- c) 723°C
- d) 680°C

Ans 1. a

2. b

3. c

4. d

Question ID : 8199736218

Option 1 ID : 81997324225

Option 2 ID : 81997324226

Option 3 ID : 81997324227

Option 4 ID : 81997324228

Status : Answered

Chosen Option : 3

Q.46

What is the cost of polishing on both sides of a triangular metal plate, that has sides of 40 cm, 50 cm and 30 cm. The rate of polishing per 100 cm² is Rs. 2.

- a) Rs. 72
- b) Rs. 36
- c) Rs. 48
- d) Rs. 24

Ans 1. a
 2. b
 3. c
 4. d

Question ID : 8199736210
Option 1 ID : 81997324193
Option 2 ID : 81997324194
Option 3 ID : 81997324195
Option 4 ID : 81997324196
Status : Answered
Chosen Option : 3

Q.47

Which among the following is a Respiratory PPE in safety

- a) Ear Muff
- b) Nose Mask
- c) Gloves
- d) Face Shield

Ans 1. a
 2. b
 3. c
 4. d

Question ID : 8199736223
Option 1 ID : 81997324245
Option 2 ID : 81997324246
Option 3 ID : 81997324247
Option 4 ID : 81997324248
Status : Answered
Chosen Option : 4

Q.48

What are the angles for Overcut and Upcut teeth respectively for a Double Cut File?

- a) 70° and 51°
- b) 60° and 51°
- c) 51° and 70°
- d) 60° and 70°

Ans 1. a
 2. b
 3. c
 4. d

Question ID : 8199736155
Option 1 ID : 81997323973
Option 2 ID : 81997323974
Option 3 ID : 81997323975
Option 4 ID : 81997323976
Status : Answered
Chosen Option : 1

Q.49

PDCA means:

- a) PICK, DO, CHOOSE, APPLY
- b) PICK, DEAL, CHANGE, ASSURE
- c) PLAN, DO, CHECK, ACT
- d) PLAN, DISCUSS, CHECK, APPLY

Ans 1. a
 2. b
 3. c
 4. d

Question ID : 8199736194
Option 1 ID : 81997324129
Option 2 ID : 81997324130
Option 3 ID : 81997324131
Option 4 ID : 81997324132
Status : Answered
Chosen Option : 3

Q.50

1.0 mm pitch for hacksaw blades fall in which among the following category

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

Ans 1. a
 2. b
 3. c
 4. d

Question ID : 8199736154
Option 1 ID : 81997323969
Option 2 ID : 81997323970
Option 3 ID : 81997323971
Option 4 ID : 81997323972
Status : Answered
Chosen Option : 4

Q.51

The opposite sides of the angles 30° , 60° and 90° of a triangle are in the ratio

- a) $2:1:\sqrt{3}$
- b) $1:\sqrt{2}:2$
- c) $1:\sqrt{3}:2$
- d) $1:\sqrt{2}:\sqrt{2}$

Ans 1. a
 2. b
 3. c
 4. d

Question ID : 8199736202
Option 1 ID : 81997324161
Option 2 ID : 81997324162
Option 3 ID : 81997324163
Option 4 ID : 81997324164
Status : Answered
Chosen Option : 3

Q.52

Identify the type of seam in sheet metal working shown below



- a) Inside Lap Seam
- b) But Seam
- c) Sunk Lap Seam
- d) Plain Lap

Ans 1. a
 2. b
 3. c
 4. d

Question ID : 8199736158
Option 1 ID : 81997323985
Option 2 ID : 81997323986
Option 3 ID : 81997323987
Option 4 ID : 81997323988
Status : Answered
Chosen Option : 1

Q.53

As the percentage of carbon increases in steel its -----
decreases

- a) Corrosion resistance
- b) Ultimate strength
- c) Hardness
- d) Ductility

Ans 1. a
 2. b
 3. c
 4. d

Question ID : 8199736217
Option 1 ID : 81997324221
Option 2 ID : 81997324222
Option 3 ID : 81997324223
Option 4 ID : 81997324224
Status : Answered
Chosen Option : 1

Q.54

Which among the following is a "Corrective Maintenance" procedure

- a) Scheduled maintenance
- b) Breakdown maintenance
- c) Preventive maintenance
- d) Predictive maintenance

Ans 1. a

2. b

3. c

4. d

Question ID : 8199736198

Option 1 ID : 81997324145

Option 2 ID : 81997324146

Option 3 ID : 81997324147

Option 4 ID : 81997324148

Status : Answered

Chosen Option : 1

Q.55

Which of the following has the highest hardness number?

- a) Martensite
- b) Tempered Martensite
- c) Coarse Pearlite
- d) Fine pearlite

Ans 1. a

2. b

3. c

4. d

Question ID : 8199736219

Option 1 ID : 81997324229

Option 2 ID : 81997324230

Option 3 ID : 81997324231

Option 4 ID : 81997324232

Status : Answered

Chosen Option : 4

Q.56

The difference between the maximum limit of size and the minimum limit of size is called:

- a) Deviation
- b) Margin
- c) Tolerance
- d) None of the above

Ans 1. a
 2. b
 3. c
 4. d

Question ID : 8199736182
Option 1 ID : 81997324081
Option 2 ID : 81997324082
Option 3 ID : 81997324083
Option 4 ID : 81997324084
Status : Answered
Chosen Option : 3

Q.57

The operation of shaping the Grinding wheel to maintain concentricity with axis is called

- a) Dressing
- b) Glazing
- c) Truing
- d) None of the above

Ans 1. a
 2. b
 3. c
 4. d

Question ID : 8199736183
Option 1 ID : 81997324085
Option 2 ID : 81997324086
Option 3 ID : 81997324087
Option 4 ID : 81997324088
Status : Answered
Chosen Option : 1

Q.58

The lead - tin based alloy with anti-friction properties, which is used for making bearings is

- a) Bronze
- b) Brass
- c) Solder
- d) Babbit metal

Ans 1. a
 2. b
 3. c
 4. d

Question ID : 8199736181
Option 1 ID : 81997324077
Option 2 ID : 81997324078
Option 3 ID : 81997324079
Option 4 ID : 81997324080
Status : Answered
Chosen Option : 3

Q.59

For Basic Shaft,

- a) Lower deviation of Hole is zero
- b) Upper deviation of Hole is zero
- c) Lower deviation of Shaft is zero
- d) Upper deviation of Shaft is zero

Ans 1. a
 2. b
 3. c
 4. d

Question ID : 8199736192
Option 1 ID : 81997324121
Option 2 ID : 81997324122
Option 3 ID : 81997324123
Option 4 ID : 81997324124
Status : Answered
Chosen Option : 1

Q.60

Higher Tension ratio in a belt causes

- a) Belt tightening and breakage
- b) Belt loosening and slip
- c) No effect on the belt
- d) Higher effective pull for transmitting required power

Ans 1. a

2. b

3. c

4. d

Question ID : 8199736196

Option 1 ID : 81997324137

Option 2 ID : 81997324138

Option 3 ID : 81997324139

Option 4 ID : 81997324140

Status : Answered

Chosen Option : 2

Q.61

The imaginary circle on which two mating gears seems to be rolling is called

- a) Root circle
- b) Tip circle
- c) Pitch circle
- d) Base circle

Ans 1. a

2. b

3. c

4. d

Question ID : 8199736197

Option 1 ID : 81997324141

Option 2 ID : 81997324142

Option 3 ID : 81997324143

Option 4 ID : 81997324144

Status : Answered

Chosen Option : 3

Q.62

Rippling in gear teeth is caused mainly due to

- a) Insufficient lubrication
- b) Foreign material in the lubrication
- c) Overload
- d) Cyclic loads under high contact stresses

Ans 1. a
 2. b
 3. c
 4. d

Question ID : 8199736201

Option 1 ID : 81997324157

Option 2 ID : 81997324158

Option 3 ID : 81997324159

Option 4 ID : 81997324160

Status : Answered

Chosen Option : 4

Q.63

A car moving at a velocity 80 km/hr is brought to rest in 60 sec. What is the retardation or deceleration experienced by the car?

- a) 0.37 meter/second²
- b) 1.33 meter/second²
- c) 0.33 meter/second²
- d) 1.37 meter/second²

Ans 1. a
 2. b
 3. c
 4. d

Question ID : 8199736203

Option 1 ID : 81997324165

Option 2 ID : 81997324166

Option 3 ID : 81997324167

Option 4 ID : 81997324168

Status : Answered

Chosen Option : 1

Q.64

A square box of mass 15 kg is resting on a horizontal surface. The coefficient of friction between the box and the surface is 0.15. What is the work required to move the box by 15 m? (Take acceleration of gravity, $g = 10 \text{ m/s}^2$)

- a) 406.8 Nm
- b) 450.2 Nm
- c) 337.5 Nm
- d) 100.9 Nm

Ans 1. a
 2. b
 3. c
 4. d

Question ID : 8199736205
Option 1 ID : 81997324173
Option 2 ID : 81997324174
Option 3 ID : 81997324175
Option 4 ID : 81997324176
Status : Answered
Chosen Option : 2

Q.65

What is the accuracy of a Caliper

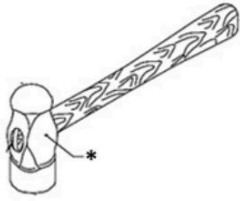
- a) 0.5 mm
- b) 0.05 mm
- c) 1 mm
- d) 0.25 mm

Ans 1. a
 2. b
 3. c
 4. d

Question ID : 8199736152
Option 1 ID : 81997323961
Option 2 ID : 81997323962
Option 3 ID : 81997323963
Option 4 ID : 81997323964
Status : Answered
Chosen Option : 1

Q.66

What is the name of the highlighted part of the Hammer



- a) Face
- b) Cheek
- c) Pein
- d) Eyehole

Ans 1. a
 2. b
 3. c
 4. d

Question ID : 8199736153

Option 1 ID : 81997323965

Option 2 ID : 81997323966

Option 3 ID : 81997323967

Option 4 ID : 81997323968

Status : Answered

Chosen Option : 2

Q.67

Centre gauges are used for

- a) Checking the job in lathe
- b) Checking and setting of tool in lathe
- c) Any of the above
- d) None of the above

Ans 1. a

2. b

3. c

4. d

Question ID : 8199736184

Option 1 ID : 81997324089

Option 2 ID : 81997324090

Option 3 ID : 81997324091

Option 4 ID : 81997324092

Status : Answered

Chosen Option : 3

Q.68

Chipless threads are generated by

- a) Gun Taps
- b) Thread forming taps
- c) Spiral fluted taps
- d) Helical fluted taps

Ans 1. a

2. b

3. c

4. d

Question ID : 8199736178

Option 1 ID : 81997324065

Option 2 ID : 81997324066

Option 3 ID : 81997324067

Option 4 ID : 81997324068

Status : Answered

Chosen Option : 3

Q.69

What is the material used for insulated rivets used in electrical assemblies?

- a) Silicon
- b) Nylon
- c) Copper
- d) Aluminium

Ans 1. a
 2. b
 3. c
 4. d

Question ID : 8199736164
Option 1 ID : 81997324009
Option 2 ID : 81997324010
Option 3 ID : 81997324011
Option 4 ID : 81997324012
Status : Answered
Chosen Option : 3

Q.70

Hardness of slip gauge should be?

- a) 55 HRC
- b) 20 HRC
- c) 34 HRC
- d) 64 HRC

Ans 1. a
 2. b
 3. c
 4. d

Question ID : 8199736212
Option 1 ID : 81997324201
Option 2 ID : 81997324202
Option 3 ID : 81997324203
Option 4 ID : 81997324204
Status : Answered
Chosen Option : 1

Q.71

Which among the following welding process does not require a shielding gas?

- a) MAG
- b) MIG
- c) TIG
- d) SMAW

Ans 1. a
 2. b
 3. c
 4. d

Question ID : 8199736171
Option 1 ID : 81997324037
Option 2 ID : 81997324038
Option 3 ID : 81997324039
Option 4 ID : 81997324040
Status : Answered
Chosen Option : 3

Q.72

Which of the following material has the highest melting point?

- a) Copper
- b) Aluminium
- c) Tungsten
- d) Gold

Ans 1. a
 2. b
 3. c
 4. d

Question ID : 8199736221
Option 1 ID : 81997324237
Option 2 ID : 81997324238
Option 3 ID : 81997324239
Option 4 ID : 81997324240
Status : Answered
Chosen Option : 3

Q.73

A Vernier has main scale with least count of 1 mm and a Vernier scale with 10 divisions. If the 4th division of Vernier scale aligns with main scale reading after 30 mm mark, what is the precise measurement.

- a) 30.20 mm
- b) 30.40 mm
- c) 30.24 mm
- d) 30.14 mm

Ans 1. a

2. b

3. c

4. d

Question ID : 8199736215

Option 1 ID : 81997324213

Option 2 ID : 81997324214

Option 3 ID : 81997324215

Option 4 ID : 81997324216

Status : Answered

Chosen Option : 2

Q.74

What will be the volume of air, with its pressure doubled and temperature halved?

- a) 2 times the initial volume
- b) 4 times the initial volume
- c) $\frac{1}{4}$ the initial volume
- d) Same as the initial volume

Ans 1. a

2. b

3. c

4. d

Question ID : 8199736207

Option 1 ID : 81997324181

Option 2 ID : 81997324182

Option 3 ID : 81997324183

Option 4 ID : 81997324184

Status : Answered

Chosen Option : 1

Q.75

What is the ABC of First Aid

- a) Airway, Breathing and Circulation
- b) Ambulance, Blood Donation & CPR
- c) Assistance, Bystanding & Coordination
- d) Attention, Balance & Care

Ans 1. a

2. b

3. c

4. d

Question ID : 8199736225

Option 1 ID : 81997324253

Option 2 ID : 81997324254

Option 3 ID : 81997324255

Option 4 ID : 81997324256

Status : Answered

Chosen Option : 1

Q.76

A metal weighs 150 kgf in air and 100 kgf in water. What is the density of the metal?

- a) 1500 kg/m³
- b) 3000 kg/m³
- c) 7000 kg/m³
- d) 900 kg/m³

Ans 1. a

2. b

3. c

4. d

Question ID : 8199736204

Option 1 ID : 81997324169

Option 2 ID : 81997324170

Option 3 ID : 81997324171

Option 4 ID : 81997324172

Status : Answered

Chosen Option : 1

Q.77

The sector of a circle has a radius of 2 m, and the length of the arc is 4

m. What is the area of the sector?

- a) 2 m^2
- b) 4 m^2
- c) 16 m^2
- d) 36 m^2

Ans 1. a
 2. b
 3. c
 4. d

Question ID : 8199736206
Option 1 ID : 81997324177
Option 2 ID : 81997324178
Option 3 ID : 81997324179
Option 4 ID : 81997324180

Status : Answered
Chosen Option : 4

Q.78

The arc length in Arc welding is called " Normal Arc Length"

- a) If distance between the electrode tip and the base metal is less than the diameter of the core wire.
- b) If distance between the electrode tip and the base metal is more than the diameter of the core wire.
- c) If distance between the electrode tip and the base metal is approximately equal to the diameter of the core wire.
- d) None of the above

Ans 1. a
 2. b
 3. c
 4. d

Question ID : 8199736169
Option 1 ID : 81997324029
Option 2 ID : 81997324030
Option 3 ID : 81997324031
Option 4 ID : 81997324032

Status : Answered
Chosen Option : 1

Q.79

Identify the fit H7j6 from the following

- a) Clearance fit
- b) Transition fit
- c) Interference fit
- d) none of these

Ans 1. a
 2. b
 3. c
 4. d

Question ID : 8199736229
Option 1 ID : 81997324269
Option 2 ID : 81997324270
Option 3 ID : 81997324271
Option 4 ID : 81997324272

Status : Answered
Chosen Option : 2

Q.80

The term allowance in limits and fits is usually referred to

- a) Minimum clearance between shaft and hole
- b) Maximum clearance between shaft and hole
- c) A difference of tolerance of hole and shaft
- d) Difference between maximum size and minimum size of the hole.

Ans 1. a
 2. b
 3. c
 4. d

Question ID : 8199736213
Option 1 ID : 81997324205
Option 2 ID : 81997324206
Option 3 ID : 81997324207
Option 4 ID : 81997324208

Status : Answered
Chosen Option : 4