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Participant ID	
Participant Name	
Test Center Name	
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Subject	Fitter(For SDSC SHAR and PCR)

Section : Fitter For SDSC SHAR and PCR

- Q.1** A grinding wheel of 250 mm diameter running at 2800 rpm. The surface speed in m/min is nearly
- A. 2200
 - B. 2000
 - C. 1880
 - D. 1960

Ans A. A
 B. B
 C. C
 D. D

Question ID : **5834939369**
Status : **Answered**
Chosen Option : **A**

- Q.2** A device used for holding the job in position and for guiding the tool is
- A. Fixture
 - B. Template
 - C. Jig
 - D. Clamp Bush

Ans A. A
 B. B
 C. C
 D. D

Question ID : **5834939384**
Status : **Answered**
Chosen Option : **C**

Q.3 Which process improves the quality of fit between the mating components?

- A. Filing
- B. Turning
- C. Grinding
- D. Lapping

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834939387
Status : Answered
Chosen Option : D

Q.4 Which type of jig is used drilling on many directions?

- A. Plate jig
- B. Post Jig
- C. Table Jig
- D. Box Jig

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834939388
Status : Answered
Chosen Option : D

Q.5 The maximum number of roots for a quadratic equation is equal to

- A. 1
- B. 2
- C. 3
- D. 4

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834939422
Status : Answered
Chosen Option : B

Q.6 As per standard, the minimum diameter of hole of dimension 25H7 is

- A. 24.930mm
- B. 25.070mm
- C. 25.000mm
- D. 24.993mm

Ans A. A
 B. B
 C. C
 D. D

Question ID : **5834939363**

Status : **Answered**

Chosen Option : **D**

Q.7 Which of the following give mechanical advantage of inclined plane

- A. Gear
- B. Wedge
- C. Lever
- D. Handle

Ans A. A
 B. B
 C. C
 D. D

Question ID : **5834939411**

Status : **Answered**

Chosen Option : **B**

Q.8 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 : **5834939393**

Status : **Answered**

Chosen Option : **B**

Q.9

निम्न में से कौन सा आयनिक मिश्रण नहीं है?

- A. KCl
- B. NaCl
- C. HCl
- D. MgO

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834939427
Status : Answered
Chosen Option : D

Q.10 Brazing is generally done

- A. Above 450 deg. C
- B. Below 450 deg C
- C. At 900 deg. C
- D. Above 1200 deg. C

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834939401
Status : Answered
Chosen Option : B

Q.11 As per ISO safety code, the color to be used inside the triangle for "toxic hazard" is

- A. Blue
- B. White
- C. Orange
- D. Yellow

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834939391
Status : Answered
Chosen Option : D

Q.12 Height of slip gauges pack required to raise a 150mm sine bar to an angle of 30° is

- A. 75 mm
- B. 100 mm
- C. 50 mm
- D. 86 mm

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834939381
Status : Answered
Chosen Option : A

Q.13 दो वर्ष पहले मेरा उम्र 'X' वर्ष है, तो 5 वर्ष पहले मेरी आयु कितनी थी ?

- A. $X + 7$
- B. $X - 5$
- C. $X - 3$
- D. $X - 7$

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834939421
Status : Answered
Chosen Option : D

Q.14 The solution for the expression $4[3s+10+2(6s-8)]$

- A. $12s - 16$
- B. $15s - 6$
- C. $60s - 24$
- D. $12s + 4$

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834939420
Status : Answered
Chosen Option : C

Q.15

Which of the following is the type of cylindrical grinding?

- A. Outside diameter grinding
- B. Plunge grinding
- C. Centre less grinding
- D. All of the above

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834939370
Status : Answered
Chosen Option : D

Q.16

In a hydraulic lift, handle cylinder has piston diameter of 2 cm and lifting cylinder has piston diameter 6cm. The mechanical advantage of this hydraulic lift is

- A. 3
- B. 4
- C. 6
- D. 9

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834939414
Status : Answered
Chosen Option : A

Q.17

Gauge used for checking diameter of finished bore

- A. Snap gauge
- B. Plug gauge
- C. Ring Gauge
- D. Slip gauges

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834939377
Status : Answered
Chosen Option : B

Q.18 One of the functions of electrode coating is

- A. To increase welding current
- B. To stabilize the arc
- C. To prevent rusting
- D. To control arc temperature

Ans A. A
 B. B
 C. C
 D. D

Question ID : **5834939403**
Status : **Not Answered**
Chosen Option : --

Q.19 In metric micrometer, generally the pitch of the spindle thread is

- A. 0.1 mm
- B. 0.25mm
- C. 0.05mm
- D. 0.5mm

Ans A. A
 B. B
 C. C
 D. D

Question ID : **5834939379**
Status : **Answered**
Chosen Option : **D**

Q.20 In oxy-acetylene gas welding, the maximum flame temperature is

- A. 2000°C
- B. 2500°C
- C. 3300°C
- D. 3800°C

Ans A. A
 B. B
 C. C
 D. D

Question ID : **5834939400**
Status : **Answered**
Chosen Option : **C**

Q.21

Material of flat lapping work plates for soft materials

- A. Cast iron
- B. Mild steel
- C. Aluminum
- D. High speed Steel

Ans A. A B. B C. C D. D

Question ID : 5834939408

Status : Answered

Chosen Option : C

Q.22 Which of the following book was written by Shri Kapildev?

- A. One day wonders
- B. Cricket – My style
- C. Twenty years at the top
- D. Cricket -Favourite Game

Ans A. A B. B C. C D. D

Question ID : 5834939436

Status : Answered

Chosen Option : B

Q.23 Equation of a line which is 5 units distance above the 'X' axis is

- A. $X = 5$
- B. $Y = 5$
- C. $X + Y = 5$
- D. $X + 5 = Y$

Ans A. A B. B C. C D. D

Question ID : 5834939418

Status : Answered

Chosen Option : B

Q.24 The coordinate point (a, a) lies on

- A. On the line $x + y = 0$
- B. On the line $y = x$
- C. X – axis
- D. Y – axis

Ans A. A
 B. B
 C. C
 D. D

Question ID : **5834939426**
Status : **Answered**
Chosen Option : **B**

Q.25 Which organization successfully test fired the surface-to-surface BrahMos supersonic cruise missile?

- A. ISRO
- B. HAL
- C. DRDO
- D. BHEL

Ans A. A
 B. B
 C. C
 D. D

Question ID : **5834939438**
Status : **Answered**
Chosen Option : **A**

Q.26 What is the spindle speed in rpm required to drill a 14mm hole at a cutting speed of 33m/min?

- A. 375
- B. 494
- C. 750
- D. 1500

Ans A. A
 B. B
 C. C
 D. D

Question ID : **5834939368**
Status : **Answered**
Chosen Option : **C**

Q.27 If the speed of wave is 380m/s and its frequency is 1900 Hz, then the wavelength will be

- A. 20 m
- B. 0.2 m
- C. 200 m
- D. 2 m

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834939440

Status : Answered

Chosen Option : B

Q.28 What is the dimension of A1 size drawing sheet?

- A. 1189 mm * 841 mm
- B. 594 mm * 841 mm
- C. 1230 mm * 880 mm
- D. 880 mm * 625 mm

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834939415

Status : Answered

Chosen Option : A

Q.29 The diameter of rod required for threading using a die is

- A. Slightly oversize to major diameter of thread
- B. Slightly smaller size to minor diameter of thread
- C. Major diameter less by 1/10 pitch of the thread
- D. Major diameter more by 1/10 pitch of the thread.

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834939390

Status : Answered

Chosen Option : B

Q.30

The correct sequence of the elements of 18-4-1 HSS tool is

- A. Tungsten, Chromium and Vanadium
- B. Molybdenum, Chromium and vanadium
- C. Chromium, Nickel and Carbon
- D. Copper, Zinc and Tin

Ans A. A B. B C. C D. D

Question ID : 5834939398

Status : Answered

Chosen Option : A

Q.31

_____ dog is faithful animal

- A. A
- B. An
- C. The
- D. No article

Ans A. A B. B C. C D. D

Question ID : 5834939434

Status : Answered

Chosen Option : A

Q.32

The following is used for lifting the load from floor to more height i.e., nearer to roof in workshops

- A. Screw jack
- B. Chain pulley block
- C. Compound Lever
- D. Overhead Crane

Ans A. A B. B C. C D. D

Question ID : 5834939412

Status : Answered

Chosen Option : D

Q.33 Melting point of solder used in electrical work is

- A. 185 °C
- B. 250 °C
- C. 350 °C
- D. 330 °C

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834939399
Status : Answered
Chosen Option : C

Q.34 कौन सी सहिष्णुता श्रेणी में अपघर्षण (grinding) प्रक्रिया मितव्यवता से की जा सकती है?

- A. IT 8
- B. IT 6
- C. IT 11
- D. IT 01

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834939365
Status : Answered
Chosen Option : B

Q.35 Which one of the following is thermosetting plastic?

- A. Polystyrene
- B. Polyvinylchloride (PVC)
- C. Polyamide
- D. Polyester

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834939397
Status : Answered
Chosen Option : A

Q.36 The product of the mass of a body and velocity is equal to its

- A. Inertia
- B. Momentum
- C. Force
- D. Friction

Ans A. A
 B. B
 C. C
 D. D

Question ID : **5834939430**
Status : **Answered**
Chosen Option : **B**

Q.37

OSHA कानून कब लागू हुआ?

- A. 1980
- B. 1930
- C. 1945
- D. 1970

Ans A. A
 B. B
 C. C
 D. D

Question ID : **5834939392**
Status : **Not Answered**
Chosen Option : --

Q.38 To check flatness and squareness of surfaces, the following is used

- a) Surface gauge
- b) Vernier caliper
- c) Try square
- d) Taly-Surf

Ans A. A
 B. B
 C. C
 D. D

Question ID : **5834939375**
Status : **Answered**
Chosen Option : **C**

Q.39 What is the height of the cuboid, if the volume is 275 cm^3 and base area is 25 cm^2 ?

- A. 10 cm
- B. 11 cm
- C. 12 cm
- D. 13 cm

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834939423
Status : Answered
Chosen Option : B

Q.40 आमतौर पर द्विस्ट ड्रिल का लिप कोण है

- A. 90°
- B. 108°
- C. 118°
- D. 136°

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834939367
Status : Answered
Chosen Option : C

Q.41 Chromium plating is done on many objects such as car parts, baths taps, kitchen gas stove, etc., why?

- A. To avoid corrosion
- B. As chromium is Non-Carcinogenic in its liquid state
- C. It costs less
- D. Article can be sold at higher price

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834939432
Status : Answered
Chosen Option : A

Q.42 What is the advantage of lock washer?

- A. Provide increased bearing surface
- B. Prevent damage to the surface
- C. Distribute even pressure on working surface
- D. Prevent bolt or nut from loosening under vibration

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834939386
Status : Answered
Chosen Option : D

Q.43 Unit of surface roughness value is

- A. mm
- B. cm
- C. μm
- D. pints

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834939406
Status : Answered
Chosen Option : C

Q.44 The base of a right-angle triangle is 48 cm and its hypotenuse is 50 cm, the area of triangle is

- A. 672 cm^2
- B. 336 cm^2
- C. 168 cm^2
- D. 252 cm^2

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834939425
Status : Answered
Chosen Option : B

Q.45 In drill jig which part is hardened?

- A. Jig body
- B. Body and bush
- C. Bush
- D. None of these

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834939385
Status : Answered
Chosen Option : C

Q.46 Sensitivity of Spirit level used in machine shop is

- A. 0.1mm per 100mm
- B. 0.5mm per 1000mm
- C. 0.05mm per 1000mm
- D. 0.005mm per 100mm

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834939378
Status : Answered
Chosen Option : D

Q.47 निम्न उपस्थिति के कारण हवा में पीतल का रंग उड़ जाता है

- A. ऑक्सीजन
- B. हाइड्रोजन सल्फाइड
- C. कार्बन डाईऑक्साइड
- D. नाइट्रोजन

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834939429
Status : Answered
Chosen Option : D

Q.48 Name of the caliper used for both outside and inside measurements

- A. Firm joint caliper
- B. Transfer caliper
- C. Jenny caliper
- D. Hermaphrodite caliper

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834939376
Status : Answered
Chosen Option : B

Q.49 The set $A = \{0,1,2, 3,\dots\}$ represents set of

- A. Natural Numbers
- B. Whole Numbers
- C. Integers
- D. Even Numbers

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834939419
Status : Answered
Chosen Option : C

Q.50

Which of the following is a synonym of ENEMY?

- A. Close
- B. Opponent
- C. Friend
- D. Relative

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834939433
Status : Answered
Chosen Option : B

Q.51 In lubrication, greases are designated with numbers from 0 to 6. Number 0 on grease designation indicates

- A. Softest grease
- B. Grease with more paste
- C. Hardest grease
- D. Grease with special elements.

Ans ✓ A. A
✗ B. B
✗ C. C
✗ D. D

Question ID : 5834939413
Status : Answered
Chosen Option : A

Q.52 Which of the following is an antonym of HEARTFELT?

- A. Humorous
- B. Insincere
- C. Loving
- D. Unhealthy

Ans ✗ A. A
✓ B. B
✗ C. C
✗ D. D

Question ID : 5834939441
Status : Answered
Chosen Option : C

Q.53 सामान्यतया, हैंड फाइल की कठोरता होती है

- A. 45 एचआरसी
- B. 30 एचआरसी
- C. 80 एचआरसी
- D. 60 एचआरसी

Ans ✗ A. A
✗ B. B
✗ C. C
✓ D. D

Question ID : 5834939395
Status : Answered
Chosen Option : D

Q.54 रिग स्पैनर में बनाए गए क्रकचनों (serrations) की संख्या सामान्यतः होती है:

- A. 6
- B. 8
- C. 12
- D. 16

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834939389
Status : Answered
Chosen Option : C

Q.55 3:7 के बराबर अनुपात है

- A. 2:3
- B. 9:21
- C. 6:8
- D. 4:7

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834939417
Status : Answered
Chosen Option : B

Q.56 The exact value of R.F on an Isometric scale is

- A. 0.815
- B. 0.8165
- C. $(\frac{2}{3})^{1/2}$
- D. 9/11

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834939416
Status : Answered
Chosen Option : B

Q.57 Surface roughness for “no material removal is permitted” is

- A. ▽
- B. ©
- C. ~
- D. √

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834939409

Status : Answered

Chosen Option : D

Q.58 निम्नलिखित प्रश्न में दिए गए विकल्पों में से संबंधित युग्म अक्षर का चयन करें

FOM: CLJ: ? : ?

- A. RQS : POQ
- B. RAX : OXU
- C. JKN : MNQ
- D. ACD : CEF

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834939437

Status : Answered

Chosen Option : B

Q.59 Which is the heaviest metal in the following

- A. Lead
- B. Mercury
- C. Titanium
- D. Gold

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834939394

Status : Answered

Chosen Option : A

Q.60 Lead of 3 start thread is 7.5mm, then the pitch of the thread is

- A. 22.5mm
- B. 10.5mm
- C. 4.5mm
- D. 2.5mm

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834939402

Status : Answered

Chosen Option : D

Q.61 The maximum rpm of spindle required for drilling 20mm hole in mild steel block is
(Cutting speed for mild steel = 44 m/min)

- A. 47 rpm
- B. 700 rpm
- C. 350 rpm
- D. 2120 rpm

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834939373

Status : Answered

Chosen Option : B

Q.62 Which of the following is an antonym of MILITARY?

- A. Civil
- B. Militant
- C. Civility
- D. Coup

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834939435

Status : Answered

Chosen Option : B

Q.63 The sherardizing process, which coating is done to protect metal surfaces?

- A. Aluminium
- B. Zinc
- C. Chromium
- D. Tin

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834939410
Status : Answered
Chosen Option : D

Q.64 Spelter is a brazing alloy consisting normally of

- A. 50 % copper and 50 % zinc
- B. 50 % copper and 50 % lead
- C. 50 % lead and 50 % zinc
- D. 50 % copper and 50 % tin

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834939404
Status : Answered
Chosen Option : A

Q.65 What type of metals joined in friction welding?

- A. Similar metals
- B. Dissimilar metal
- C. Non-metal group
- D. Any metal flat type

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834939405
Status : Answered
Chosen Option : C

Q.66 Process of making conical recess on open end of drilled hole is

- A. Counter boring
- B. Counter sinking
- C. Counter reaming
- D. Trepanning

Ans A. A
 B. B
 C. C
 D. D

Question ID : **5834939366**
Status : **Answered**
Chosen Option : **B**

Q.67 Maximum interference between a housing of hole diameter $45^{+0.025}$ mm and bush of outside diameter $45^{+0.042}_{-0.026}$ mm

- A. 5 μ m
- B. 10 μ m
- C. 26 μ m
- D. 42 μ m

Ans A. A
 B. B
 C. C
 D. D

Question ID : **5834939364**
Status : **Answered**
Chosen Option : **D**

Q.68 The largest number that will divide 398, 436 and 542 leaving remainders 7, 11 and 15 respectively is

- A. 17
- B. 11
- C. 34
- D. 45

Ans A. A
 B. B
 C. C
 D. D

Question ID : **5834939424**
Status : **Answered**
Chosen Option : **A**

Q.69 300mm की लंबाई के साथ एक कार्य वस्तु पर टेपर की लंबाई 200mm है। टेपर का बड़ा व्यास 60mm एवं छोटा व्यास 40mm है। यह टेपर लेथ पर बनाया जाएगा तथा इस टेपर को बनाने के लिए आवश्यक टेलस्टॉक 'सेट-ओवर' है

- A. 15 mm
- B. 20 mm
- C. 12 mm
- D. 22 mm

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834939372
Status : Not Answered
Chosen Option : --

Q.70 "Life of Pi" किताब किसने लिखी?

- A. यान मार्टेल
- B. जॉर्ज सौन्डर्स
- C. सलमान रश्दी
- D. अमिताव घोष

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834939439
Status : Not Answered
Chosen Option : --

Q.71 Surface finish is the measure of

- A. Waviness of surface
- B. Roughness of surface
- C. Texture
- D. Lay

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834939407
Status : Answered
Chosen Option : C

- Q.72** The purpose of Jigs & Fixtures is to
- A. Increase machining Accuracy
 - B. Increase Production rate
 - C. Facilitate Interchangeability
 - D. All of the above

Ans A. A
 B. B
 C. C
 D. D

Question ID : **5834939383**
Status : **Answered**
Chosen Option : **D**

- Q.73** In a measurement with metric micrometer, the sleeve scale has 0.5 mm minor division with a least count of 0.01 mm. Sleeve shows 15 major divisions, minor division is 1 and thimble aligned at 18. Then the measured value is
- A. 15.18 mm
 - B. 15.68 mm
 - C. 16.18 mm
 - D. 16.68 mm

Ans A. A
 B. B
 C. C
 D. D

Question ID : **5834939382**
Status : **Answered**
Chosen Option : **B**

- Q.74** The reason for resulting oversized hole in drilling is
- A. Lip clearance angle is small
 - B. Point angle is more
 - C. Lips are not in equal length
 - D. Lip clearance angle is more

Ans A. A
 B. B
 C. C
 D. D

Question ID : **5834939371**
Status : **Answered**
Chosen Option : **C**

Q.75 It is required to cut double start Acme thread with 5mm pitch on a lathe which is having lead screw of pitch 2 TPI (threads per inch). The gear ratio required is

- A. 50/127
- B. 25/128
- C. 100/127
- D. 127/87

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834939374
Status : Not Answered
Chosen Option : --

Q.76 Which gas is used in Nitriding process

- A. Nitrogen
- B. Ammonia
- C. Carbon dioxide
- D. Argon

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834939396
Status : Answered
Chosen Option : B

Q.77 A point where the whole weight of the body appears to act vertically downwards is called

- A. Centre of the body
- B. Friction
- C. Centre of gravity
- D. Intersection point

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834939431
Status : Answered
Chosen Option : C

Q.78 Which of the gas is not known as greenhouse gas?

- A. Methane
- B. Nitrous oxide
- C. Carbon dioxide
- D. Hydrogen

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834939428
Status : Answered
Chosen Option : D

Q.79 As per BIS standard, the designation for V blocks for matching pair is

- A. V block M 50/150 – 40A IS3949
- B. V block M 50/150 – 40A – IS2949
- C. V block IS2949 –50x150 – A1-1-M
- D. V block IS2949 –50x150 - A1-1-P

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834939380
Status : Not Answered
Chosen Option : --

Q.80 Dimension $55.5^{+0.035}$ is an example of

- A. Unilateral Tolerance
- B. Bilateral Tolerance
- C. Limiting the dimensions
- D. Showing amount of error in dimension

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834939362
Status : Answered
Chosen Option : B