



भारत सरकार :: अंतरिक्ष विभाग
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Section : Fitter For SDSC SHAR and PCR

Q.1

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 ☒ 1. A
☒ 2. B
☒ 3. C
☒ 4. D

Question ID : 5834939421

Q.2

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 ☒ 1. A
☒ 2. B
☒ 3. C
☒ 4. D

Question ID : 5834939370

Q.3 A taper work piece with length of 300mm on which length of taper is 200mm. Large diameter of taper is 60 mm and the smaller one is 40mm. This taper shall be made on lathe and the tail stock set-over required for making this taper is

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

Ans  1. A

 2. B

 3. C

 4. D

Question ID : 5834939372

Q.4 Which organization successfully test fired the surface-to-surface BrahMos supersonic cruise missile?

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

Ans  1. A

 2. B

 3. C

 4. D

Question ID : 5834939438

Q.5 Melting point of solder used in electrical work is

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

Ans  1. A

 2. B

 3. C

 4. D

Question ID : 5834939399

Q.6 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  1. A
 2. B
 3. C
 4. D

Question ID : 5834939384

Q.7 Which of the gas is not known as greenhouse gas?

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

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

Question ID : 5834939428

Q.8 Which type of jig is used drilling on many directions?

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

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

Question ID : 5834939388

Q.9 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  1. A
 2. B
 3. C
 4. D

Question ID : 5834939402

Q.10 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  1. A

 2. B

 3. C

 4. D

Question ID : 5834939404

Q.11 इलेक्ट्रोड विलेपन का फलनहै

- A. वेल्डिंग धारा को बढ़ाना
- B. आर्क को स्थायी करना
- C. जंग लगने से रोकना
- D. आर्क तापमान को नियंत्रण करना

Ans  1. A

 2. B

 3. C

 4. D

Question ID : 5834939403

Q.12 To check flatness and squareness of surfaces, the following is used

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

Ans  1. A

 2. B

 3. C

 4. D

Question ID : 5834939375

Q.13

In general, number of serrations made in Ring spanner is

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

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

Question ID : 5834939389

Q.14

Which of the following is a synonym of ENEMY?

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

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

Question ID : 5834939433

Q.15

Process of making conical recess on open end of drilled hole is

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

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

Question ID : 5834939366

Q.16 Which one of the following is thermosetting plastic?

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

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

Question ID : 5834939397

Q.17 _____ dog is faithful animal

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

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

Question ID : 5834939434

Q.18 Surface roughness for “no material removal is permitted” is

- A. ∇
- B. $\odot$
- C. $\sim$
- D. 

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

Question ID : 5834939409

Q.19 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  1. A
 2. B
 3. C
 4. D

Question ID : 5834939380

Q.20 What type of metals joined in friction welding?

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

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

Question ID : 5834939405

Q.21 आमतौर पर द्विस्ट ड्रिल का लिप कोण है

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

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

Question ID : 5834939367

Q.22 Who wrote the book "Life of Pi"?

- A. Yann Martel
- B. George Saunders
- C. Salman Rashdie
- D. Amitav Ghosh

Ans  1. A

 2. B

 3. C

 4. D

Question ID : 5834939439

Q.23 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  1. A

 2. B

 3. C

 4. D

Question ID : 5834939379

Q.24 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  1. A

 2. B

 3. C

 4. D

Question ID : 5834939414

Q.25 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  1. A

 2. B

 3. C

 4. D

Question ID : 5834939431

Q.26 Which of the following are not ionic compound?

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

Ans  1. A

 2. B

 3. C

 4. D

Question ID : 5834939427

Q.27 Gauge used for checking diameter of finished bore

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

Ans  1. A

 2. B

 3. C

 4. D

Question ID : 5834939377

Q.28 Which of the following is an antonym of HEARTFELT?

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

Ans  1. A

 2. B

 3. C

 4. D

Question ID : 5834939441

Q.29 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  1. A

 2. B

 3. C

 4. D

Question ID : 5834939391

Q.30 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  1. A

 2. B

 3. C

 4. D

Question ID : 5834939432

Q.31 The solution for the expression $4 [3s+10+2(6s-8)]$

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

Ans  1. A

 2. B

 3. C

 4. D

Question ID : 5834939420

Q.32 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  1. A

 2. B

 3. C

 4. D

Question ID : 5834939382

Q.33 The maximum number of roots for a quadratic equation is equal to

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

Ans  1. A

 2. B

 3. C

 4. D

Question ID : 5834939422

Q.34 सामान्यतया, हैंड फाइल की कठोरता होती है

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

Ans  1. A

 2. B

 3. C

 4. D

Question ID : 5834939395

Q.35 नाइट्राइडिंग प्रक्रिया में कौन सी गैस का प्रयोग किया जाता है।

- A. नाइट्रोजन
- B. अमोनिया
- C. कार्बन डायऑक्साइड
- D. आर्गन

Ans  1. A

 2. B

 3. C

 4. D

Question ID : 5834939396

- Q.36** The purpose of Jigs & Fixtures is to
- A. Increase machining Accuracy
 - B. Increase Production rate
 - C. Facilitate Interchangeability
 - D. All of the above

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

Question ID : 5834939383

- Q.37** 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  1. A
 2. B
 3. C
 4. D

Question ID : 5834939376

- Q.38** Material of flat lapping work plates for soft materials
- A. Cast iron
 - B. Mild steel
 - C. Aluminum
 - D. High speed Steel

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

Question ID : 5834939408

Q.39 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  1. A

 2. B

 3. C

 4. D

Question ID : 5834939413

Q.40 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  1. A

 2. B

 3. C

 4. D

Question ID : 5834939363

Q.41 The exact value of R.F on an Isometric scale is

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

Ans  1. A

 2. B

 3. C

 4. D

Question ID : 5834939416

Q.42

ड्रिल जिग का कौन सा भाग सबसे कठोर होता है?

- A. जिग बॉडी
- B. बॉडी और बुश
- C. बुश
- D. इनमें से कोई नहीं

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

Question ID : 5834939385

Q.43

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

Question ID : 5834939423

Q.44

वर्कशॉप में फर्श से ऊँचाई तक यानि छत तक भार को उठाने के लिए निम्नलिखित का प्रयोग किया जाता है।

- A. स्कू जैक
- B. चेन घिरनी ब्लॉक
- C. संयुक्त लीवर
- D. शिरोपरि क्रेन

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

Question ID : 5834939412

Q.45

Which of the following is an antonym of MILITARY?

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

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

Question ID : 5834939435

Q.46 The tolerance grade which can be obtained economically by grinding process is ...

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

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

Question ID : 5834939365

Q.47 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  1. A 2. B 3. C 4. D

Question ID : 5834939401

Q.48

OSHA कानून कब लागू हुआ?

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

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

Question ID : 5834939392

Q.49

150 मि.मी. की ज्या छड़ (साइन बार) को 30° कोण तक उठाने के लिए आवश्यक सन्निदेशी प्रमापी (स्लिप गेज) पैक की ऊँचाई होगी

- A. 75 मि.मी.
- B. 100 मि.मी.
- C. 50 मि.मी.
- D. 86 मि.मी.

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

Question ID : 5834939381

Q.50 Brass gets discolored in air due to presence of

- A. Oxygen
- B. Hydrogen sulphide
- C. Carbo dioxide
- D. Nitrogen

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

Question ID : 5834939429

Q.51 Maximum interference between a housing of hole diameter $45^{+0.025}_{-0.000}$ 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  1. A
 2. B
 3. C
 4. D

Question ID : 5834939364

Q.52 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  1. A
 2. B
 3. C
 4. D

Question ID : 5834939378

Q.53 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  1. A
 2. B
 3. C
 4. D

Question ID : 5834939374

Q.54

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

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

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

Question ID : 5834939410

Q.55

3:7 के बराबर अनुपात है

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

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

Question ID : 5834939417

Q.56

ऑक्सी-एसीटिलीन गैस वेल्डिंग में, अधिकतम ज्वलन तापमान है

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

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

Question ID : 5834939400

Q.57 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  1. A
 2. B
 3. C
 4. D

Question ID : 5834939371

Q.58 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  1. A
 2. B
 3. C
 4. D

Question ID : 5834939418

Q.59 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  1. A
 2. B
 3. C
 4. D

Question ID : 5834939390

Q.60 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  1. A
 2. B
 3. C
 4. D

Question ID : 5834939426

Q.61 मृदु इस्पात ब्लॉक में 20mm छिद्र वेधन के लिए तर्कु का अधिकतम rpm -----है

(मृदु इस्पात का कर्तन गति=44 m/min)

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

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

Question ID : 5834939373

Q.62 The product of the mass of a body and velocity is equal to its

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

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

Question ID : 5834939430

Q.63 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  1. A
 2. B
 3. C
 4. D

Question ID : 5834939436

Q.64 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  1. A
 2. B
 3. C
 4. D

Question ID : 5834939368

Q.65 सबसे बड़ी संख्या जिससे 398, 436, एवं 542 को विभाजित करने पर क्रमशः 7, 11 तथा 15 शेष हों

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

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

Question ID : 5834939424

Q.66 The base of a right-angle triangle is 48 cm and its hypotenuse is 50 cm, the area of triangle is

- A. 672 cm²
- B. 336 cm²
- C. 168 cm²
- D. 252 cm²

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

Question ID : 5834939425

Q.67 Which process improves the quality of fit between the mating components?

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

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

Question ID : 5834939387

Q.68 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  1. A
 2. B
 3. C
 4. D

Question ID : 5834939437

Q.69 Which is the heaviest metal in the following

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

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

Question ID : 5834939394

Q.70

Which of the following give mechanical advantage of inclined plane

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

Ans  1. A

 2. B

 3. C

 4. D

Question ID : 5834939411

Q.71

250 mm व्यास वाली सान चक्र 2800rpm पर चलती है तो पृष्ठीय गति m/min में लगभग होगी

- A. 2200
- B. 2000
- C. 1880
- D. 1960

Ans  1. A

 2. B

 3. C

 4. D

Question ID : 5834939369

Q.72

A1 आकार के ड्राइंग कागज का आयाम क्या है?

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

Ans  1. A

 2. B

 3. C

 4. D

Question ID : 5834939415

Q.73

लॉक वाशर का क्या लाभ है?

- A. वर्धित बेयरिंग पृष्ठ प्रदान करना
- B. पृष्ठ को क्षति से बचाना
- C. कार्यरत पृष्ठ पर एकसमान दाब वितरित करना
- D. कंपन होने पर बोल्ट या नट को ढीला होने से रोकना

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

Question ID : 5834939386

Q.74

यदि तरंग की गति 380m/s एवं इसकी आवृत्ति 1900Hz है, तो तरंगदैर्घ्य की लंबाई है

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

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

Question ID : 5834939440

Q.75

Cyaniding and Nitriding are two methods of

- A. Hardening
- B. Case hardening
- C. Tempering
- D. Normalizing

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

Question ID : 5834939393

Q.76 Unit of surface roughness value is

- A. mm
- B. cm
- C. μm
- D. pints

Ans  1. A

 2. B

 3. C

 4. D

Question ID : 5834939406

Q.77

18-4-1 HSS उपकरण के अवयवों का सही क्रम होगा

- A. टंगस्टन, क्रोमियम एवं वनाडियम
- B. मोलिब्डेनम, क्रोमियम एवं वनाडियम
- C. क्रोमियम, निकेल एवं कार्बन
- D. कॉपर, जिंक एवं टिन

Ans  1. A

 2. B

 3. C

 4. D

Question ID : 5834939398

Q.78 The set $A = \{0, 1, 2, 3, \dots\}$ represents set of

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

Ans  1. A

 2. B

 3. C

 4. D

Question ID : 5834939419

Q.79Dimension $55.5^{+0.035}$ is an example of

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

Ans  1. A 2. B 3. C 4. DQuestion ID : **5834939362****Q.80**

Surface finish is the measure of

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

Ans  1. A 2. B 3. C 4. DQuestion ID : **5834939407**