RRB ALP Fitter 23 Jan 2019 Official Paper (Shift 3) (Previous Year Paper)

RRB Assistant Loco Pilot (ALP) • 2019 • 175 questions • 150 minutes • Answer key

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PART A

Q1. Name the scientist who discovered bacteria ?

(a) Robert Koch
(b) James Chadwick
(c) Eugen Goldstein
(d) A V Leeuwenhoek

Q2. If a body has a specific gravity of less than 1, then it will float in/on _____.

(a) air
(b) water
(c) liquids
(d) mercury

Q3. Which of the following options does not have an SI base unit?

(a) Amount of substance
(b) Frequency
(c) Luminous intensity
(d) Electric current

Q4. How many medals did India win in Rio Olympics, 2016?

(a) 3
(b) 4
(c) 2
(d) 5

Q5. It is mainly due to the gravitational effect of the _____ on the rotating earth that the level of water in the sea rises and falls.

(a) Venus
(b) Mercury
(c) Moon
(d) Sun

Q6. Two resistance of 2Ω and 6Ω are connected in series and this combination is connected across a 12 V battery. Find the current in the 6Ω resistor.

(a) 3.5 A
(b) 1. 5 A
(c) 0.5 A
(d) 2.5 A

Q7. Substances that are broken down by biological processes are said to be _____.

(a) reusable
(b) non-biodegradabl
(c) non-reusable
(d) biodegradable

Q8. A software program that has been developed to harm other computers is called a/an _____.

(a) server
(b) LAN
(c) malware
(d) operating system

Q9. Kuchipudi has its roots in which Indian State?

(a) Arunachal Pradesh
(b) Kerala
(c) Andhra Pradesh
(d) Himachal Pradesh

Q10. Which Indian cricketer received the Padma Bhushan in 2018?

(a) MS Dhoni
(b) Virat Kohli
(c) Sachin Tendulkar
(d) Saurav Ganguly

Q11. JPEG stands for _____.

(a) Joint Program Experts Group
(b) Joint Program Executing Group
(c) Joint Photographic Experts Group
(d) Joint Program Experimental Group.

Q12. Two resistors, one of 12 Ω and the other of 24 Ω are connected in parallel. This combination is connected in series with a 22 Ω resistor and a 12 V battery. The current in the 12 Ω resistor is _____.

(a) (8/15) A
(b) (2/15) A
(c) (6/15) A
(d) (4/15) A

Q13. RK Narayan is famous for his book _____.

(a) The Room on the Roof
(b) Two Livers
(c) Malgudi Days
(d) A suitable Boy

Q14. _____ protection must be worn whenever noise levels exceed the noise exposure standard.

(a) Hearing
(b) Head
(c) Eye
(d) Foot

Q15. A wire of length 1 and radius r has a resistance R. The resistance of another wire made of the same material but having half its length and half its radius will be.

(a) 4R
(b) R/2
(c) 2R
(d) R

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Q16. Safety boots or shoes must be worn in designated areas to protect your _____ from falling objects.

(a) eye
(b) ear
(c) head
(d) feet

Q17. A cylindrical wire of length L and radius r has a resistance of R. The resistance of another wire of the same material but thrice its length and one-third its radius will be _____.

(a) 27R
(b) 9R
(c) R
(d) 3R

Q18. If a body is NOT homogeneous, then its density is a function of its _____.

(a) pressure
(b) acceleration
(c) position
(d) velocity

Q19. Two resistors of 10Ω and 20 Ω area connected in series and this combination is connected across a 30 V supply voltage. Find the voltage across the 10 Ω resistor.

(a) 20 V
(b) 10 V
(c) 5 V
(d) 15 V

Q20. Which one of these is a harvest festival?

(a) Teej
(b) Janmashtami
(c) Deepawali
(d) Onam

Q21. 86°F is equal to _____

(a) 20°C
(b) 30°C
(c) 34°C
(d) 10°C

Q22. Where is the Headquarters of UNESCO located?

(a) New York City
(b) Geneva
(c) Paris
(d) Washington DC

Q23. Name of the painter of famous painting, ‘Mahishasura’.

(a) MF Hussain
(b) Amrita Sher-Gil
(c) Raja Ravi Verma
(d) Tyeb Mehta

Q24. What is the work that needs to be done to increase the speed of a 1 kg ball from 2 m/s to 4 m/s?

(a) 8 J
(b) 10 J
(c) 6 J
(d) 12 J

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Q25. The Ajanta Caves in Maharashtra feature paintings and sculptures that depict _____ tales.

(a) Arabic
(b) Islamic
(c) Buddhist
(d) Maratha

Q26. The volume of a given amount of water _____ between 0°C to 4°C.

(a) is zero
(b) decreases
(c) remains constant
(d) increases

Q27. Two resistance of 2Ω and 6Ω are connected in series and this combination is connected across a 12 V bettery. Find the power supplied by the battery.

(a) 10 W
(b) 18 W
(c) 16 W
(d) 14 W

Q28. An object weighs X units on the earth. If we take the same object to the moon, its weight there will be _____.

(a) zero
(b) less than X
(c) equal to X
(d) more than X

Q29. A body starts from rest. Its displacement is proportional to _____ when its acceleration is constant.

(a) time squared
(b) velocity
(c) work
(d) time

Q30. A source of voltage V maintains a current i in a circuit. The energy supplied to the circuit by the source in time t is _____.

(a) Vit
(b) 1/Vit
(c) Vi/t
(d) V/it

Q31. Who was the first governor of the Reserve Bank of India?

(a) Sir James Braid Taylor
(b) KR Puri
(c) HVR Iyengar
(d) Sir Osborne A Smith

Q32. A car covers 400 m in 20 seconds. Find the average speed (in km/hr) of the car.

(a) 72
(b) 124
(c) 108
(d) 36

Q33. If $\sin\theta = 15/17$, then $\cot\theta = ?$

(a) 8/15
(b) 8/17
(c) 15/8
(d) 17/15

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Q34. In an examination, the highest score and the lowest score are different by 55 and the higher one was 9/4 times the lower one. Find the lowest score.

(a) 40
(b) 36
(c) 44
(d) 48

Q35. A number is as much greater than 50 as it is lesser than 84. What is the number?

(a) 65
(b) 66
(c) 68
(d) 67

Q36. If $x = \sqrt{125} \times \sqrt{30} \times \sqrt{6}$, then x is equal to:

(a) 175
(b) 125
(c) 136
(d) 150

Q37. A got Rs. 80 as his share of profit where the total profit was Rs. 240 and the ratio of profit distribution between A and B was x : 2. What is the value of x?

(a) 1
(b) 4
(c) 2
(d) 5

Q38. What is the median of 8, 5, 7, 9, 11, 6, 10?

(a) 9
(b) 8
(c) 10
(d) 7

Q39. If $5050 \times 0.5x = 25250$, then $2505 \div x^2 = ?$

(a) 0.2505
(b) 25.05
(c) 2.505
(d) 250.5

Q40. An article of marked price Rs. 12000 was sold. Had a discount of 15% been offered, a profit of 2% would have been made. What was the cost price?

(a) Rs. 10,200
(b) Rs. 10,000
(c) Rs. 11,000
(d) Rs. 10,800

Q41. A sum of Rs. 2,000 was spent in buying a pair of trousers. The sum spent was 2/5^(th) of the total money Shashi had with her. How much was the total money she had?

(a) Rs. 4,000
(b) Rs. 4, 250
(c) Rs. 4, 750
(d) Rs. 5,000

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Q42. A machine was bought for Rs. 1,500 and a repairing charge of Rs. 100 was paid afterwards. At what price should it be sold to gain a profit of 25%?

(a) Rs. 2,040
(b) Rs. 1,960
(c) Rs. 2,000
(d) Rs. 1, 920

Q43. In angular measurement, one radian is equivalent to _____ degree (approximately).

(a) 65.27
(b) 57.27
(c) 90
(d) 180

Q44. A and B can do a work in 15 days. B and C can do the work in 20 days and A and C can do the work in 10 days. In how many days will they together completed the work?

(a) 10.67 days
(b) 10.91 days
(c) 10.71 days
(d) 9.23 days

Q45. Pipes A and B can fill a tank in 12 minutes and 16 minutes respectively. Both A and B are opened for 4 minutes and then A is closed. How much extra time will B take to fill the tank completely?

(a) 20/3 minutes
(b) 7 minutes
(c) 21/4 minutes
(d) 6 minutes

Q46. A can do 2/5 of a work in 10 days. B can do ½ of the some work in 10 days. They worked together for 5 days and then A left. In how many days will B finish the remaining work?

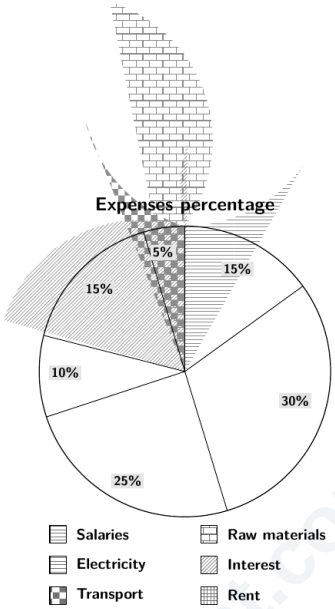
(a) 8
(b) 10
(c) 11
(d) 9

Q47. Reflection of point (-2, -6) on the Y-axis is:

(a) (2, 6)
(b) (-6, -2)
(c) (-2, 6)
(d) (2, -6)

Q48. The pie chart shows the breakup in percentage of the various expenses of a Company. Study the diagram and answer the following question.

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What is the interest expense if total expenses is Rs. 25000.

(a) Rs. 2, 500
(b) Rs. 1, 800
(c) Rs. 9, 000
(d) Rs. 5, 000

Q49. A motorcycle travelled 1000 m at 36 km/hr. Find the time (in seconds) taken by the motorcycle to cover this distance.

(a) 300
(b) 100
(c) 400
(d) 200

Q50. A 4-digit number 1xy7 is divisible by 11. What is the value of x - y?

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

Q51. Tap M and N can together fill a cistern in 48/13 minutes. N alone can fill it in 6 minutes. How much time will M alone take to fill the cistern?

(a) 9.6 minutes
(b) 9 minutes
(c) 9.4 minutes
(d) 8.6 minutes

Q52. What is the curved surface area of a hemisphere whose radius is 7 cm? (take π = 22/7)

(a) 616 cm^2
(b) 154 cm^2
(c) 308 cm^2
(d) 924 cm^2

Q53. An airplane flies at the speed of 50 m/s. How much distance (in km) will it cover in a flight of 5 hours?

(a) 895
(b) 850
(c) 880
(d) 900

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Q54. What is the distance between the points (4, 3) and (3, -2)?

(a) √26
(b) √24
(c) 6
(d) 5

Q55. sec 45° - tan 60° = ?

(a) • √3 + √2
(b) • √3 - √2
(c) (√3)/2
(d) √3 + √2

Q56. What is the least number which when doubled is perfectly divisible by 7, 12 and 15?

(a) 420
(b) 210
(c) 214
(d) 220

Q57. A sum of Rs. 10,000 amounts to Rs. 11, 449 in 2 years, when the interest is compounded annually. The interest rate percent per annum is:

(a) 6%
(b) 1%
(c) 7%
(d) 8%

Q58. The ages of X and Y are in the ratio 4 : 7. Three years earlier, the ratio of their ages was 1 : 2. What is the difference between their current ages (Y - X)?

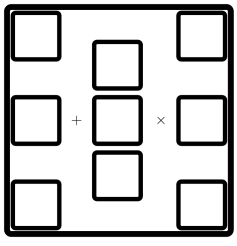
(a) 3
(b) 6
(c) 9
(d) 7.5

Q59. What is 80% of 50% of 90?

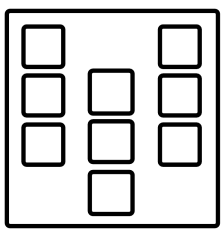
(a) 30
(b) 34
(c) 32
(d) 36

Q60. Choose the figure that is different from the rest.

(a)

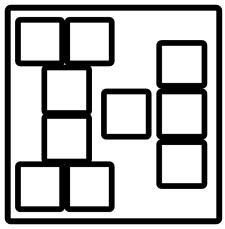


(b)

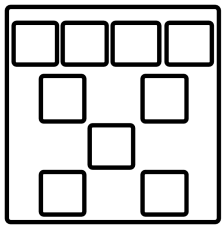


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(c)



(d)



Q61. A series is given, with one number missing. Choose the correct alternative from the given ones that will complete the series.

1.14, 1.28, 1.42, ?, 1.70, 1.84

(a) 1.56
(b) 1.54
(c) 1.68
(d) 1.62

Q62. Two planes E and F start flying from the same point. E flies 7 km west, then turns to its left and flies 15 km. Meanwhile F flies 11 km east and turns right and flies 15 km. Where is F with respect to E?

(a) F is 18 km west of E
(b) F is 4 km east of E
(c) F is 18 km east of E
(d) F is 4 km west of E

Q63. Given below are some letters, that each of these letters has a corresponding number. Select the combination of numbers from the option so that the jumbled letters arranged accordingly will form a meaningful English word.

H T R U O A

1 2 3 4 5 6

(a) 6, 4, 2, 1, 5, 3
(b) 3, 4, 5, 2, 1, 6
(c) 1, 6, 2, 4, 5, 3
(d) 2, 1, 5, 3, 4, 6

Q64. I, J, K and L are sitting in a row. L and I are sitting next to each other and I and K are the ends. Who is sitting next to J?

(a) Only K
(b) L and I
(c) K and L
(d) Only L

Q65. Select the option that is related to the third term in the same way as the second term is related to the first term.

Tall : Short ? Glad : ?

(a) Sad
(b) Happy
(c) Emotion
(d) Smile

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Q66. If, '+' represents '×', '-' represents '+', '×' represents '÷' and '÷' represents '-' then find the value of the following expression.

9 × 3 + 6 ÷ 2 = ?

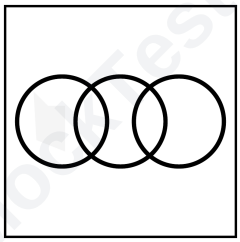
(a) 20
(b) 10
(c) 12
(d) 16

Q67. If G + H means G is daughter of H, G- H means G is sister H and G * H means G is husband of H, which of the following shows that I is the daughter of H?

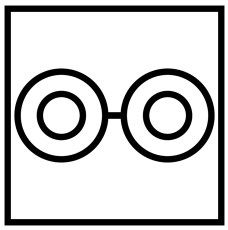
(a) I – J + F * H
(b) I + J - F * H
(c) I – J * F + H
(d) I * J - F + H

Q68. Which of the following Venn diagrams best represents the relationship between Indians, doctors and women?

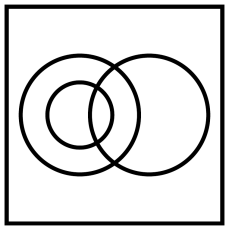
(a)



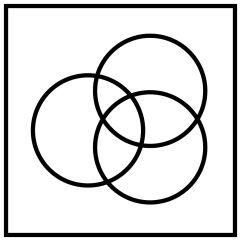
(b)



(c)



(d)



Q69. Given below are two statement, followed by two conclusion, I and II. You have to consider the statement to be true even if they seem to be at variance from commonly known facts. You have to decide which of the given conclusions, if any, follow(s) from the given statements.

Statement 1: No quadrilaterals are polygons.

Statement 2: All polygons are rhombuses.

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Conclusion I: Some rhombuses are quadrilaterals.

Conclusion II: Some rhombuses are polygons.

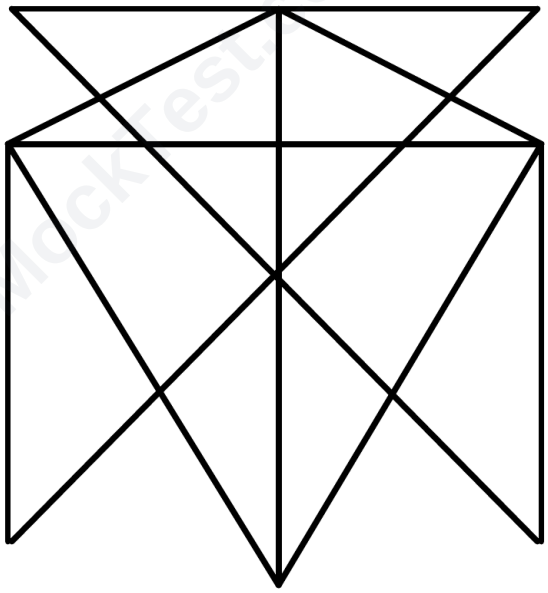
(a) Neither I nor II follows
(b) Only conclusion II follows
(c) Only conclusion I follows
(d) Both I and II follow

Q70. Which two signs should be interchanged to make the given equation correct?

9 ÷ 3 + 8 × 2 – 15 = 2

(a) × and -
(b) ÷ and -
(c) • and ×
(d) • and -

Q71. What is the minimum number of lines required to make the given image?



(a) 13
(b) 12
(c) 10
(d) 9

Q72. A series is give, with one term missing. Choose the correct alternative from the given ones that will complete the series.

OOOOOX, OOOOXX, OOOXXX, OOXXXX, ?

(a) XXXXXX
(b) OOXXXXX
(c) OOXXXX
(d) OXXXXX

Q73. If C $ D means C is daughter of D, C & D means C is mother of D and C % D means C is son of D, then what does W $ X & Y % Z mean?

(a) Z is wife of W
(b) Z is mother of W
(c) Z is father of W
(d) Z is daughter of W

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Q74. Given below is a question, followed by two arguments, I and II. You have to decide which of the given arguments, if any, is a strong argument, with respect to the question.

Question: Should advertisements be banned on television?

Argument I: Yes, advertisements are immoral.

Argument II: No, advertisements bring in revenue which helps reduce cost for viewers.

(a) Only argument II is strong.
(b) Only argument I is strong.
(c) Neither I nor II is strong.
(d) Both I and II are strong.

Q75. Select the option that is related to the third number in the same way as the second number is related to the first number.

-9/11 : 11/9 ? 13/2 : ?

(a) 3/7
(b) 2/13
(c) -2/13
(d) -7/3

Q76. Given below is a statement followed by two assumption numbered I and II. You have to decide which of the assumptions is/are implicit in the statement.

Statement: The human body produces Vitamin D when exposed to sunlight.

Assumption I: The human body will have Vitamin D even if it is not consumed via food.

Assumption II: A large portion of the global population suffers from Vitamin D deficiency.

(a) Both I and II are implicit
(b) Only assumption II is implicit
(c) Neither I nor II is implicit
(d) Only assumption I is implicit

Q77. A salesperson starts from his office and drives 2 km east, then turns north and drives 7 km, then turns to his right and drives 6 km, then turns south and drives 7 km. Where is he now with respect to his starting position?

(a) 8 km east
(b) 4 km west
(c) 4 km east
(d) 8 km west

Q78. Unscramble the letters in the words given below and find the odd word out.

(a) FLOW
(b) ILNO
(c) ERTIG
(d) WCO

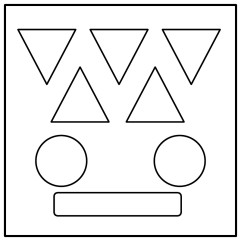
Q79. Find the odd group of letters from the given alternatives.

(a) EFG
(b) PQR
(c) VWX
(d) HJL

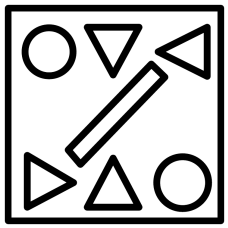
Q80. Choose the figure that is different from the rest.

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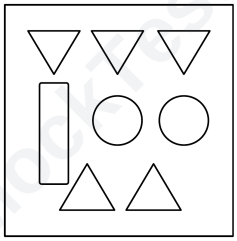
(a)



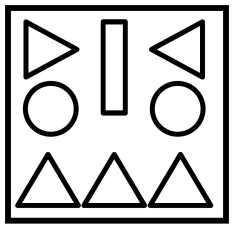
(b)



(c)



(d)

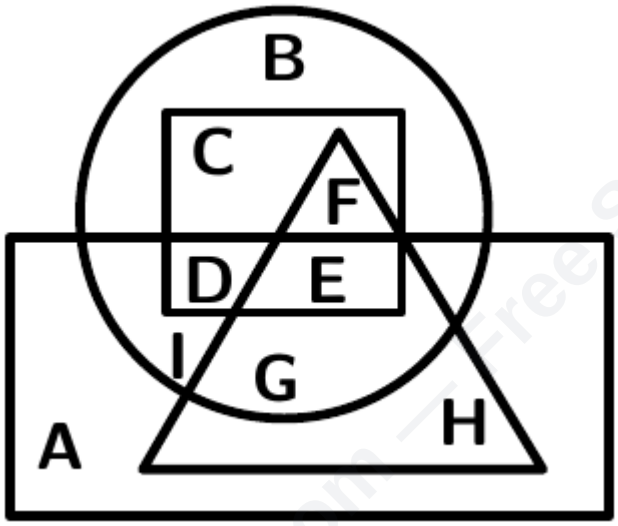


Q81. In a code language, 295 means ‘water is liquid’, 549 means ‘oil is liquid’ and 824 means ‘oil on water.’ Find the code for ‘on’.

(a) 4
(b) 2
(c) 8
(d) 5

Q82. In the following figure, square represents Chinese, triangle represents dancers, circle represents male and rectangle represents architects. Which set of letters represents dancers who are male?

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(a) DEIG
(b) DEF
(c) IGH
(d) GEF

Q83. The abbreviation AC in an engineering drawing stands for _____.
(a) Across Corners
(b) Aerial Cut
(c) Attached Circle
(d) Air Conditioning

Q84. Greater the value of _____ of a material, the more rapidly it will conduct heat.
(a) melting point
(b) latent heat
(c) regelation
(d) thermal conductivity

Q85. The effort applied to move a load is 15 units and the mechanical advantage is observed to be 3. Find the load.
(a) 5 units
(b) 3 units
(c) 15 units
(d) 45 units

Q86. What is the unit's digit in 3^(66)× 6^(41) × 7^(53)
(a) 8
(b) 3
(c) 6
(d) 7

Q87. If the width of a standard engineering drawing sheet is 841 mm, then its length would be _____ mm.
(a) 1189
(b) 1250
(c) 1000
(d) 1216

Q88. A 200 g block of iron was heated from 30°C to 60°C. How much heat was transferred to the block (specific heat of iron is 450 Jkg^(-1)K^(-1))?
(a) 6000 J
(b) 27 J

(c) 2700 J
(d) 270 J

Q89. If a machine overcomes a load 'L' and the distance travelled by the load is 'Ld', the work done by the load will be _____.
(a) L × Ld
(b) L/Ld
(c) Ld/L
(d) 1/(L × Ld)

Q90. A brass rod (thermal conductivity 109 J/s m K) has an area of cross section 0.04 m² and length 20 cm. If the two end of the rod are maintained at a temperature difference of 200°C, the rate of heat flow through the rod is _____.
(a) 3.42 kJ/s
(b) 2.32 kJ/s
(c) 4.36 kJ/s
(d) 5.80 kJ/s

Q91. The effort in a class 1 lever is in _____ direction(s).
(a) three
(b) multiple
(c) two
(d) one

Q92. The velocity ratio of a simple machine is the ratio of distance traveled by the _____ to the distance traveled by the _____ in the machine.
(a) load; load
(b) effort; load
(c) load; effort
(d) effort; effort

Q93. If straight lines are drawn from various points on the contour of an object to meet a plane, the figure obtained on the plane is called the _____ of the object.
(a) development
(b) dimensioning
(c) projection
(d) animation

Q94. A _____ is a theoretical exact plane, axis or point location that GD & T or dimensional tolerances are referenced to.
(a) flange
(b) frame
(c) section
(d) datum

Q95. Molar specific heat capacity of a substance is _____.
(a) (1/μ)((Δ Q)/(Δ T))
(b) μ ((Δ Q)/(Δ T))
(c) (1/μ)((Δ T)/(Δ Q))
(d) μ ((Δ T)/(Δ Q))

Q96. In engineering drawing, the letters LH signifies _____.
(a) Level Hide
(b) Left Hand
(c) Low Heat
(d) Limit of Height

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Q97. Identify the material having high coefficient of volume expansion.

(a) Brass
(b) Alcohol
(c) Glass
(d) Water

Q98. An object starts from rest at x = 0 m and moves with a constant acceleration of 1.6 m/s² along the x-axis. During its journey from x = 12.8 m to x = 20.0 m, its average velocity will be _____.

(a) 7.2 m/s
(b) 3.6 m/s
(c) 8.8 m/s
(d) 2.4 m/s

Q99. You are given a question and two statements. Identify which of the statements is/are necessary/sufficient to answer the question.

Question: What was the discount percent offered on the soap by the store?

Statements:

I) The store is giving 1 soap free on purchase of three.

II) Rs. 10 discount is offered on purchase of soap worth 36.

(a) II alone is sufficient while I alone is not sufficient
(b) I alone is sufficient while II alone is not sufficient
(c) Neither I nor II is sufficient
(d) Either I or II is sufficient

Q100. Identify the material having low coefficient of volume expansion

(a) Iron
(b) Mercury
(c) Brass
(d) Aluminium

PART B

Q101. In case of arc welding, one should protect his eyes using

(a) Dark glass screen
(b) Mask
(c) Safety goggles
(d) Sun goggles

Q102. Bearing bushes are made up of _____

(a) Cast Iron
(b) White Metal
(c) Gun Metal
(d) Copper

Q103. The part of the universal surface gauge which helps to draw a parallel line along a datum edge is the _____

(a) Rocker arm
(b) Guide pins
(c) Snug
(d) Fine adjusting screw

Q104. The threads on the lead screw of a lathe are called

(a) Acme threads
(b) Square threads
(c) Knuckle threads

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(d) Buttress threads

Q105. Which is closest to the purest form of the iron?

(a) Cast Iron
(b) Wrought Iron
(c) Pig Iron
(d) Steel

Q106. Which among the following processes is employed for embedding the abrasive on the lap?

(a) Lapping
(b) Fixing
(c) Charging
(d) Rubbing

Q107. A wedge-like tool which is used for removing the taper shank tools from the nose of the machine spindle, is called as _____

(a) Drill chuck
(b) Drill key
(c) Drill socket
(d) Drill drift

Q108. A hole, which is not made through full depth of the component is known as _____?

(a) through hole
(b) blind hole
(c) steeped hole
(d) all of the above

Q109. Drill chucks are held on the machine spindle by means of _____.

(a) arbor
(b) Drift
(c) draw-in bar
(d) chuck nut

Q110. Which chisel type is used for cutting key-ways, Grooves and slots?

(a) Flat chisel
(b) Diamond point chisel
(c) Cross cut chisel
(d) Half round nose chisel

Q111. Choose the best device to hold and locate a round bar for drilling.

(a) 'V'-block
(b) Adjustable locator
(c) Pin locator
(d) Wedge type location

Q112. Name the forging operation where the length of a piece of metal is reduced and its cross sectional area is increased

(a) Upsetting
(b) Drifts
(c) Drawing out
(d) Bolster

Q113. The electrode size refers to

(a) Diameter of its core wire
(b) Diameter (overall) of electrode
(c) Thickness of flux coating

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(d) Length of electrode

Q114. Parallel blocks are used for_____.

(a) levelling machine tools
(b) setting workpiece horizontal
(c) cutting parallel keys
(d) marking parallel lines along an edge

Q115. The straight shank drill is held in the main spindle of drilling machine by

(a) chuck
(b) floating holder
(c) collet
(d) sleeve

Q116. Which property of metal is called mechanical property?

(a) conductivity
(b) tenacity
(c) fusibility
(d) specific gravity

Q117. The surface connecting crest and root of a thread is termed as

(a) Depth of thread
(b) Thread angle
(c) Pitch
(d) Flank

Q118. Which one of the following is a temporary joint?

(a) Riveted joint
(b) Welded joint
(c) Soldered joint
(d) Press fit joint

Q119. IC engine cylinder bores are finished in best way by:

(a) Grinding
(b) Lapping
(c) Honing
(d) Spot facing

Q120. Clogging of workpiece material in grinding wheel means

(a) Dressing
(b) Trueing
(c) Loading
(d) Glazing

Q121. Which of the following types of pulley is used in-group drives?

(a) Solid pulley
(b) Split pulley
(c) Fast and loose pulley
(d) Jockey pulley

Q122. The creep in a belt drive is due to the

(a) Power fluctuation
(b) Thickness of the belt
(c) Unequal tension in tight and slack sides of the belt
(d) Equal size of the pulleys

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Q123. The pattern of the work surface caused by the movement of the cutting tool is known as,

(a) Surface texture
(b) Roughness
(c) Roughness spacing
(d) Waviness

Q124. In a boring operation, the amount of 1 mm cut will increase the diameter of__ mm.

(a) 1
(b) 1.5
(c) 2
(d) 0.5

Q125. In general, which of the following is the medium used to harden the high speed steel?

(a) Soda water
(b) Water
(c) Oil
(d) Salt water solution

Q126. The measuring faces of the slip gauges are finished by _____.

(a) Honing
(b) Lapping
(c) Reaming
(d) Drilling

Q127. The length of the sine bar is the distance between

(a) Center-to-center distance between rollers
(b) Out-of-distance distance between rollers.
(c) Diagonal cross-length of sine bar
(d) One end at the other end of the sign bar

Q128. The number of fundamental tolerance in the Indian Standard System are:

(a) 16
(b) 15
(c) 18
(d) 14

Q129. Which part of a lathe machine is involved for taper turning?

(a) Leadscrew
(b) Cross slide
(c) Gearbox
(d) Carriage

Q130. In globe valves the pressure is usually _____.

(a) against the stem
(b) under the seat
(c) on the right side
(d) on the left side

Q131. In the hole basis system, the hole is kept constant & the size of the _____ is varied to get the desired fit.

(a) Tolerance
(b) Shaft
(c) Hole
(d) Fit

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Q132. A slight convexity is given to the cutting edges of flat chisel to _____.

(a) allow the lubricant to enter
(b) cut sharp corners
(c) prevent digging of the ends of cutting edge
(d) cut curved surfaces

Q133. Indexing type tool post are called _____way tool post.

(a) Four
(b) One
(c) Two
(d) Three

Q134. Which of the following heat treatment method is generally used for reliving internal stresses of a hardened tool?

(a) Annealing
(b) Stabilizing
(c) Normalizing
(d) Tempering

Q135. During marking, the reference surface is provided by _____.

(a) work piece
(b) bore gauge
(c) marking-off table
(d) sketch of the job

Q136. In railway carriage coupling ____ thread is used.

(a) Square
(b) Acme
(c) Buttress
(d) Knuckle

Q137. What is the value for roughness grade no ‘ N4 ‘ in micrometres

(a) 0.025
(b) 0.05
(c) 0.1
(d) 0.2

Q138. The rivets are designated by _____.

(a) head diameter only
(b) length and diameter of rivet
(c) length of rivet only
(d) head shape only

Q139. A file having 20 teeth (approximately) per 1 inch is generally termed as a _____ file.

(a) rough
(b) second cut
(c) dead-smooth
(d) smooth

Q140. Which pulley increase wrapping angle of pulley?

(a) V-pulley
(b) Timer pulley
(c) Rope pulley
(d) Jockey pulley

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Q141. _____ is NOT a part of a combination set.

(a) Center head
(b) Protractor head
(c) Slip gauge
(d) Square head

Q142. Which gauge is used for measuring diameter of a cylinder bore?

(a) Taper plug gauge
(b) Barometer
(c) Telescopic gauge
(d) Screw pitch gauge

Q143. Shears are used to cut _____.

(a) rubber sheets
(b) G.I Wire
(c) thick sheet
(d) very thinned sheet

Q144. What is the function of a “Pilot” when provided in reamer?

(a) Removing chips
(b) Hold in machine spindle
(c) Finish concentric hole
(d) Hold in tap wrench

Q145. Which lathe machine attachment is used for relief to multipoint cutting tools _____.

(a) Milling attachment
(b) Relieving attachment
(c) Taper turning attachment
(d) Grinding attachment

Q146. A drift is used for _____.

(a) drawing a drill location
(b) fixing chuck on the machine spindle
(c) removing the drill from the machine spindle
(d) removing a broken drill from the work

Q147. For which purpose bed gap is maintained near head stock of lathe machine?

(a) To reduce bed weight
(b) To machine large diameter job
(c) To reduce cost of the machine
(d) To improve its aesthetics

Q148. A block level can be used for checking _____.

(a) only vertical alignment
(b) only horizontal alignment
(c) only angular alignment
(d) vertical & horizontal alignment

Q149. Which fire extinguisher is used for controlling class ‘B’ fire?

(a) CO_2
(b) Wood chips
(c) Carbon tetrachloride
(d) Water

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Q150. _____ is a process of case hardening in which the outer layer is made hard by increasing amount of carbon.

(a) Annealing
(b) Normalizing
(c) Carburizing
(d) Tempering

Q151. What is the use of hermaphrodite caliper?

(a) Scribing parallel line to an edge.
(b) Scribing a cycloid to an edge.
(c) Checking diameter of a round bar.
(d) Scribing zig-zag lines.

Q152. The number of threads per inch can be checked with a ____.

(a) slip gauge
(b) ring gauge
(c) metric rule
(d) screw pitch gauge

Q153. In the process of dressing of grinding wheels to restore sharpness is done by _____.

(a) sharp edged H.S.S cutter
(b) tool steel dresser
(c) pumice stone dresser
(d) diamond dresser

Q154. The grade of slip gauges for general workshop application.

(a) Grade ‘ii’
(b) Grade ‘0’
(c) Grade ‘0 0’
(d) Grade ‘i’

Q155. A prick punch having angle of taper 60° is used for _____.

(a) punching marks for holes to be drilled
(b) witness marks on scribed lines
(c) locating hole position
(d) locating divider points

Q156. During the use of shaft, the component used to hold & support the shaft is called_____.

(a) shaft
(b) pulley
(c) bearing
(d) gear

Q157. _____ is the capacity of the metal to be expanded in all directions without fracturing by hammering or rolling.

(a) Casting
(b) Malleability
(c) Hardness
(d) Brittleness

Q158. For flowering or frosting _____ scraper is used

(a) Triangular
(b) Hook
(c) Flat
(d) Bull nose

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Q159. A work piece is center drilled in the lathe for the purpose of _____.

(a) spotting a hole for drilling or for turning in between centres
(b) turning in between centers only
(c) facing to the centre of the work piece
(d) for increasing strength of the workpiece

Q160. Which among the following operations will be most suitable, and will produce a larger diameter hole concentric to a cored hole in a casting?

(a) Boring
(b) Facing
(c) External turning
(d) Knurling

Q161. The ratio of the strength of a riveted joint to the strength of original solid plate is called as _____ of the joint.

(a) stiffness
(b) strength
(c) an efficiency
(d) an accuracy

Q162. Which of the following instrument is used for measuring higher temperatures in a furnace?

(a) Barometer
(b) Pyrometer
(c) Calorimeter
(d) Thermometer

Q163. The included angle between the lip drills is known as _____.

(a) Rake angle
(b) Chisel edge angle
(c) Point angle
(d) Helix angle

Q164. Which of the following statement is correct about an independent four jaw chuck?

(a) The jaws can be moved in and out radially
(b) The jaws move simultaneously
(c) The jaws cannot be used to hold a bar having a square cross section
(d) It is not to be used for round jobs

Q165. Which of the following is an advantage of plant maintenance?

(a) It decreases accuracy of instruments
(b) It increases life of instruments
(c) It decreases plant safety
(d) It decreases life of instruments

Q166. It works on the principle of rake & pinion.

(a) Vernier bevel protactor
(b) Dial test indicator
(c) Vernier height gauge
(d) Micrometer

Q167. In a brazing operation, which of the following is the commonly used flux?

(a) Sulphuric acid
(b) Hydrochloric acid
(c) Diesel oil
(d) Borax

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Q168. Drill chucks are fitted on the drilling machine spindle by means of ____

(a) Arbor
(b) Drift
(c) Knurled ring
(d) Pinion & key

Q169. In case of riveted joints, caulking and fullering are the processes performed to make the joints _____.

(a) Strong
(b) Soft
(c) Leak proof
(d) Flexible

Q170. Following which things must be watched when sharpening a drill.

(a) Shank
(b) Margin
(c) Flute
(d) Angle of lips

Q171. The roughing out machine tap has _____.

(a) tapered flutes
(b) helical flutes
(c) no flutes
(d) straight flutes

Q172. Generally, which of the following material doesn't require coolant while machining?

(a) Aluminium
(b) Copper
(c) Mild steel
(d) Cast iron

Q173. For deep underwater cutting, which of the following gas is used?

(a) Acetylene
(b) LPG
(c) Methane
(d) Hydrogen

Q174. In sheet metal operation two edges are joined by _____.

(a) grooving
(b) seaming
(c) heming
(d) bending

Q175. The distance between the crest & the root of a thread measured normal to the axis is _____.

(a) Pitch diameter
(b) Depth of thread
(c) Thickness of thread
(d) Minor diameter

ANSWER KEY

1	a	2	a	3	a	4	a	5	a	6	a	7	a	8	a	9	a	10	a
11	a	12	a	13	a	14	a	15	a	16	a	17	a	18	a	19	a	20	a
21	a	22	a	23	a	24	a	25	a	26	a	27	a	28	a	29	a	30	a
31	a	32	a	33	a	34	a	35	a	36	a	37	a	38	a	39	a	40	a

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41	a	42	a	43	a	44	a	45	a	46	a	47	a	48	a	49	a	50	a
51	a	52	a	53	a	54	a	55	a	56	a	57	a	58	a	59	a	60	a
61	a	62	a	63	a	64	a	65	a	66	a	67	a	68	a	69	a	70	a
71	a	72	a	73	a	74	a	75	a	76	a	77	a	78	a	79	a	80	a
81	a	82	a	83	a	84	a	85	a	86	a	87	a	88	a	89	a	90	a
91	a	92	a	93	a	94	a	95	a	96	a	97	a	98	a	99	a	100	a
101	a	102	a	103	a	104	a	105	a	106	a	107	a	108	a	109	a	110	a
111	a	112	a	113	a	114	a	115	a	116	a	117	a	118	a	119	a	120	a
121	a	122	a	123	a	124	a	125	a	126	a	127	a	128	a	129	a	130	a
131	a	132	a	133	a	134	a	135	a	136	a	137	a	138	a	139	a	140	a
141	a	142	a	143	a	144	a	145	a	146	a	147	a	148	a	149	a	150	a
151	a	152	a	153	a	154	a	155	a	156	a	157	a	158	a	159	a	160	a
161	a	162	a	163	a	164	a	165	a	166	a	167	a	168	a	169	a	170	a
171	a	172	a	173	a	174	a	175	a										

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