RRB ALP Fitter 21 Jan 2019 Official Paper (Shift 1) (Previous Year Paper)

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

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PART A

Q1. Find the velocity (in m/s) that a car will achieve after 20 seconds if it starts and accelerates at 3.2 m/s²

(a) 72
(b) 36
(c) 108
(d) 64

Q2. When you convert an inch from British to an SI unit, it becomes _____cm.

(a) 25.4
(b) 12
(c) 0.254
(d) 2.54

Q3. First aid for strains, sprains and contusions is packaged in the abbreviation RICE, which stands for Rest, Icing, compression and _____.

(a) Elevation
(b) Explain
(c) Expand
(d) Expert

Q4. Which of the following dance forms belongs to the state of Jammu and Kashmir?

(a) Rouf
(b) Bidesia
(c) Karma
(d) Swang

Q5. In the Punjabi festival of Lohri, which element of the nature worshipped?

(a) Air
(b) Earth
(c) Water
(d) Fire

Q6. Ozone at the higher levels of the atmosphere is a product of _____ molecule.

(a) UV radiation acting on Hydrogen
(b) UV radiation acting on Helium
(c) UV radiation acting on Oxygen
(d) UV radiation acting on Nitrogen

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Q7. The physical place where a computer stores information is called _____.

(a) Modem
(b) Hard disk
(c) Wi-Fi
(d) POP

Q8. Which vitamin is needed for proper clotting of blood?

(a) Vitamin E
(b) Vitamin D
(c) Vitamin K
(d) Vitamin A

Q9. A 12V battery is connected parallel to a 5 Ω resistor. Find the current supplied by this battery.

(a) 2.4 A
(b) 2:00 A
(c) 2.8 A
(d) 1.5 A

Q10. The acceleration due to gravity on the Moon is (1/6) of that on the Earth. Hence, an object weighing 12 N on the Earth will weigh _____ on the Moon.

(a) 72 N
(b) 12 N
(c) 2 N
(d) 6 N

Q11. One horse-power (hp) 1 hp = _____W.s

(a) 500
(b) 646
(c) 846
(d) 746

Q12. Which country does not form a part of the Middle East?

(a) Turkey
(b) Honduras
(c) Yemen
(d) Syria

Q13. 77 °F is equal to _____.

(a) 25 °C
(b) 15 °C
(c) 20 °C
(d) 10 °C

Q14. Who is popularly known as “The Picasso of India”?

(a) Kanu Desai
(b) Abanindranth Tagore
(c) ramkinkar Baij
(d) M.F. Husain

Q15. Two resistors, one of 20 Ω and the other of 30 Ω are connected in parallel. This combination is connected in series with an 8 Ω resistor and a 12 V battery. The current in the 30 Ω resistor is _____.

(a) 0.24 A
(b) 0.90 A
(c) 0.36 A
(d) 0.60 A

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Q16. Identify the substance from the below having highest specific heat capacity.

(a) Ice
(b) Kerosene
(c) Aluminium
(d) Water

Q17. Where is the famous temple of Angkor Wat located?

(a) Vietnam
(b) Cambodia
(c) Thailand
(d) Philippines

Q18. Which device is used for the measurement of heat?

(a) Wattmeter
(b) Energy meter
(c) Ammeter
(d) Calorimeter

Q19. 1 kilowatt hour (kWh) of energy = _____ joule.

(a) 3.6 × 10^6
(b) 1.8 × 10^4
(c) 1.8 × 10^6
(d) 3.6 × 10^4

Q20. Electric current is considered to be the flow of _____.

(a) Negative charges
(b) Dielectric
(c) magnet pieces
(d) Positive charges

Q21. The SI unit for electrical resistivity is _____.

(a) Tesla
(b) Ampere/meter
(c) Volt/meter
(d) Ohm meter

Q22. Which Indian CM wrote his/her autobiography titled “My unforgettable Memories”?

(a) Nitish Kumar
(b) Arvind Kejriwal
(c) Mamta Banerjee
(d) Jayalalitha

Q23. _____ is the most common way of connecting computers on a network with wired connection.

(a) LAN
(b) Wi-Fi
(c) Ethernet
(d) Inernet

Q24. A cylindrical wire of length L and radius r has resistance R. the resistance of another wire of same material but of twice its length and twice its radius is:

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

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Q25. Identify the variable from below that does not describe the behaviour of a gas.

(a) Temperature
(b) Volume
(c) Pressure
(d) Time

Q26. Who is the first sportsperson among the below to have won the Bharat Ratna award?

(a) Sachin Tendulkar
(b) Dhynachand
(c) Abhinav Bindra
(d) Leander Paes

Q27. Who is elected as the new President of Badminton Association of India (BAI) in the year 2018?

(a) Prakash Padukone
(b) P. Gopichand
(c) Saina Nehwal
(d) Himata Biswa Sarma.

Q28. Three resistors 80 Ω, 120 Ω and 240 Ω are connected in parallel. A 12 V battery is connect across combination of resistors. Find the current drawn from the battery.

(a) 0.3 A
(b) 0.09 A
(c) 0.9 A
(d) 3 A

Q29. A continuous and closed path of an electric current is called as:

(a) Electric circuit
(b) Short circuit
(c) Magnetic circuit
(d) Junction

Q30. Who is India's all time leading goal scorer in international football(the record as of October 2018)?

(a) Gurpreet Singh sandhu
(b) Bhaichung Bhutia
(c) Sunil Chhetri
(d) Subrata Pal

Q31. The resistance of a uniform metallic conductor is _____.

(a) Inversely proportional to its length
(b) Directly proportional to its area
(c) inversely proportional to its area.
(d) Inversely proportional to its electrical resistivity.

Q32. A 100 gram ball is kept on the top of a building of 70 m height. Find the potential energy of the ball (assume g = 10 m/s^2)

(a) 70 J
(b) 80 J
(c) 50 J
(d) 60 J

Q33. A can do a certain work in 15 days, while Working together, A and B can do the same work in 7.5 days. How many days will B alone take to do the same work?

(a) 15 days
(b) 12.5 days
(c) 17.5 days

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(d) 20 days

Q34. What is the mode of 21, 22, 22, 23, 24, 24, 24?

(a) 22
(b) 23
(c) 24
(d) 21

Q35. What will be the difference between the compound interest and simple interest on a sum of Rs. 100 at 10% per annum for 2 years?

(a) Rs. 2
(b) Rs. 1.50
(c) Rs. 1
(d) Rs. 0.50

Q36. When (5)^(501) is divided by 126, the remainder is:

(a) 125
(b) 121
(c) 89
(d) 117

Q37. An article was sold for Rs. 642 when the cost price was Rs. 600. What is the profit percent earned?

(a) 5%
(b) 7%
(c) 8%
(d) 6%

Q38. The LCM of two numbers is 48. Their ratio is 2:3. What is the sum of the numbers?

(a) 24
(b) 48
(c) 30
(d) 40

Q39. If $(x - 1)^2 + (y - 2)^2 = (x – 1) (y - 2)$, where x and y are integers, then value of $2x + 3y$ is:

(a) 5
(b) 8
(c) 11
(d) 7

Q40. When 16 is subtracted from 3 times a number. The result is 8. What is the cube of the original number?

(a) 216
(b) 512
(c) 243
(d) 125

Q41. A tank can be filled in 9 hours. Because of a leak, it takes 10 hours to fill. In how much time will the leak alone empty the full tank?

(a) 75 hours
(b) 80 hours
(c) 60 hours
(d) 90 hours

Q42. What is the value of 10% of 110% of 110?

(a) 11.55
(b) 12.1
(c) 6.05

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(d) 18.15

Q43. The graph of 2x = 5 - 3y cuts the x-axis at the point P (α, β). The value of (2α + β) is:

(a) 3
(b) 5
(c) 2
(d) 8

Q44. A solid sphere of diameter 12 cm is melted and three shorts are prepared. If the diameters of two shorts are 6 cm and 10 cm respectively, what is the surface area (in cm^2) of the third short?

(a) 64π
(b) 32π
(c) 48π
(d) 24π

Q45. ΔXYZ is right-angled at Y. If angle X = 45°, then sec Z = ?

(a) 2√2
(b) 2
(c) 1/√2
(d) √2

Q46. An article was sold for Rs. 760, which incurred a loss of 5%. What is the cost price of the article?

(a) Rs. 1000
(b) Rs. 800
(c) Rs. 960
(d) Rs. 840

Q47. What is the least number which, when multiplied by 28, forms a perfect square?

(a) 14
(b) 2
(c) 4
(d) 7

Q48. Sec 30° + cos 30° = ?

(a) 7√3 / 6
(b) √3/6
(c) 7/6
(d) 7/√3

Q49. A and B can do a certain work in 12 days, B & C can do the same work in 15 days, while A and C can do the same work. In 36 days. In how many days will all three together complete that work?

(a) 11.15 days
(b) 11.20 days
(c) 10.75 days
(d) 11.25 days

Q50. Pipe A fills a tank at 50 m^3/hour. Pipe B takes 4 hours to fill the tank. When opened together, they fill the tank in 2 hours. What is the volume of the tank?

(a) 150 m^3
(b) 100 m^3
(c) 225 m^3
(d) 200 m^3

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Q51. How much does the 2^(nd) diagonal of a rhombus measure if the area is 96 sq cm and the 1^(st) diagonal measures 6 cm?

(a) 48 cm
(b) 16 cm
(c) 24 cm
(d) 32 cm

Q52. What is the length of a diagonal of a cube whose side is 3 cm?

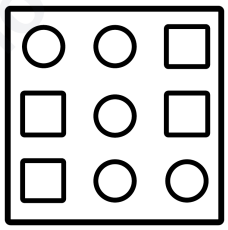
(a) 6 cm
(b) 4 cm
(c) 4.5 cm
(d) 3√3 cm

Q53. If G + H means G is the sister of H; G – H means G is the daughter H and G * H means G is wife of H, which of the following shows that Q is the father of P?

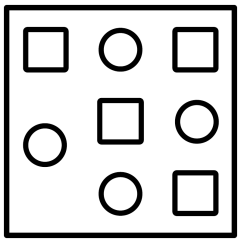
(a) P + R – S * Q
(b) P * R – S + Q
(c) P – R + S * Q
(d) P * R + S - Q

Q54. Choose the figure that is different from the rest.

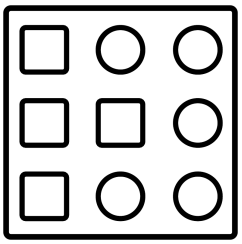
(a)



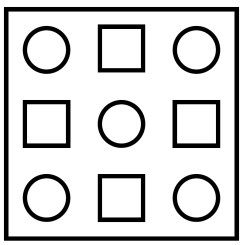
(b)



(c)



(d)



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Q55. Find the odd set of letters form the given alternatives.

(a) QRS
(b) MLK
(c) WXY
(d) FGH

Q56. In a code language, 379 means 'wood makes chair', 389 means 'wood makes table, 872 'table and chair'. Find the code for 'and'.

(a) 9
(b) 2
(c) 7
(d) 8

Q57. Which two signs should be interchanged to make the below equation mathematically correct?

12 – 3 + 8 × 2 ÷ 4 = 16

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

Q58. Unscramble the letters in the words given below and find the odd word out:

(a) APEPR
(b) ENP
(c) ARERES
(d) HCRAI

Q59. A villager walks 8 km North, then turns East and walks 2 km, then turns South and walks 5 km, then turns to his right and walks 2 km. Where is he now with reference to his starting position?

(a) 3 km North
(b) 13 km North
(c) 13 km South
(d) 3 km South

Q60. If WICKET is coded as UGAICR, then how will MAD be coded as?

(a) PKN
(b) EDC
(c) WDV
(d) KYB

Q61. Given below is a statement followed by two conclusion numbered I and II. You have to assume everything in the statement to be true, even if it appears at variance from commonly known facts. Then consider the two conclusions together and decide which of them information given in the statement.

Statement:

A research found that if high school students get eight hours of sleep instead of 6 hours before exam, then their marks improve by 20%

Conclusions:

I. Eight hours of sleep is better than six hours of sleep if a student wants better marks.

II. Student are stressed as all exams are tough.

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

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Q62. Decide whether the data provided in the statements numbered I and II is sufficient to answer the given question.

Question:

What is the ratio of boys to girls in a class?

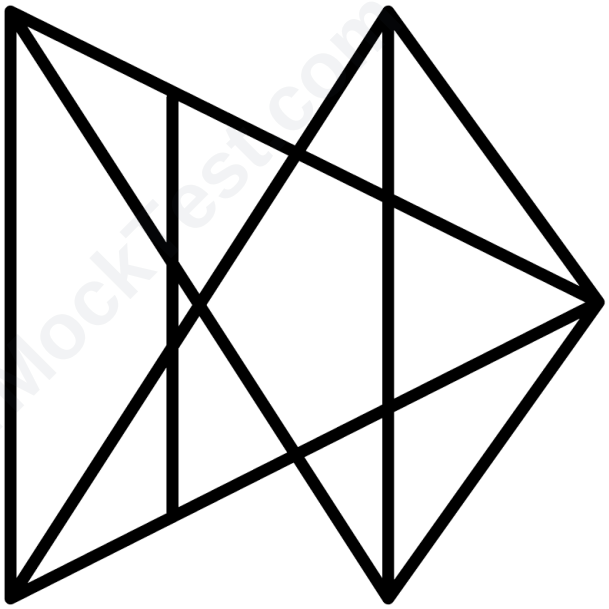
Statements:

I. There are 20 boys in the class.

II. The ratio of girls to the number of students in the whole class is 3 : 7

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

Q63. What is the minimum number of lines required to make the given image?



(a) 12
(b) 11
(c) 9
(d) 10

Q64. Select the option that is related to the third term in the same way as the second term is related to the first term.

Tomato : Red ? Leaf :?

(a) organic
(b) Flower
(c) Plant
(d) Green

Q65. Select the combination of numbers so that the jumbled letters arranged accordingly will form a meaningful English word.

O	H	R	E	M	T
1	2	3	4	5	6

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

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Q66. In the question, two statements are given followed by two conclusions, I and II. You have to consider the statements to be true even if they seem to be at variance with commonly known facts. You have to decide which of the given conclusions, if any, follow(s) from the given statements.

Statements:

1. Some lemons are yellow.

2. All yellow are lime.

Conclusions:

I. No lime are lemon.

II. Some lemon are lime.

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

Q67. If C% D means C is the mother of D, C $ D means C is the wife of D, and if C & D means C is the son-in-law of D, then what does W % X $ Y & Z mean?

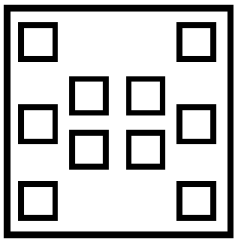
(a) W is the daughter of son of Z
(b) Z is wife of W
(c) Z is the daughter of W
(d) Z is the husband of W

Q68. The ages of X and Y are in the ratio 4 : 5 After 6 years, the ration will become 6 : 7. What is the current age of Y (in years)?

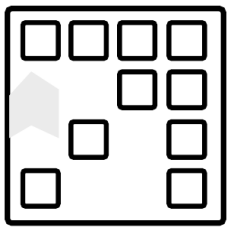
(a) 20
(b) 5
(c) 10
(d) 15

Q69. Choose the figure that is different from the rest

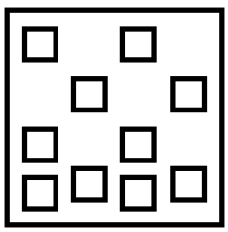
(a)



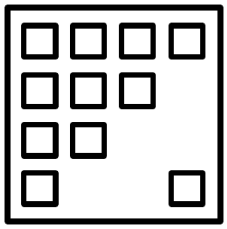
(b)



(c)

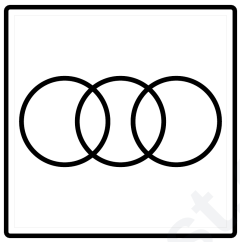


(d)

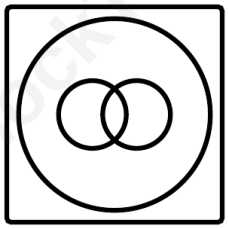


Q70. Which of the following given diagrams best represents the relationship between carnivores, lions and tigers?

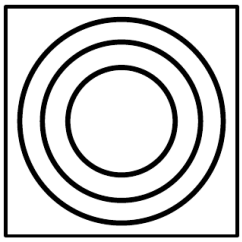
(a)



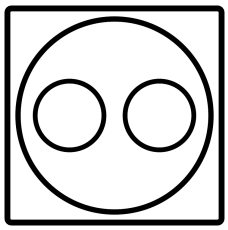
(b)



(c)



(d)



Q71. Select the option that is related to the third number in the same way as the second number is related to the first number.

1375 : 64 ? 13579 :?

(a) 25
(b) 5
(c) 425
(d) 125

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

0.35, 0.49, 0.63, 0.77, ? 1.05

(a) 0.95
(b) 0.83
(c) 0.87
(d) 0.91

Q73. Two postmen, C and D, start walking from a post office. C walk 2 km north, then turns to his right and walks 5 km. Meanwhile D walks 5 km East, turns right and walks 6 km. Where is D with respect C?

(a) D is 8 km south of C
(b) D is 4 km south of C
(c) D is 8 km North of C
(d) D is 4 km North of C

Q74. E, F, G. and H are sitting in a row. F and H are adjacent. E and G are adjacent. G does not want to sit next to either H or F, and H does not want to sit next to E. Which two are sitting at the ends?

(a) F and E
(b) F and G
(c) H and E
(d) H and G

Q75. Given below is a statement followed by two assumptions numbered I and II. You have to decide which of the assumptions is implicit in the statement.

Statement:

Five-day week will reduce stress on employees.

Assumptions:

I. Employees are always stressed due to personal issues.

II. Five-day week is the new global trend.

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

Q76. In a certain code language, '+' represents '×', '-' represents '+' and '×' represents '÷. Find out the answer to the following mathematical expression in that language.

2 – 6 × 3 + 4 = ?

(a) 2
(b) 12
(c) 10
(d) 8

Q77. A series is given, with one term missing. Choose the correct alternative from the given options that will complete the series

XWV, TSR, PON, LKJ,?

(a) IJK
(b) DEF
(c) HGF
(d) LMO

Q78. Find the odd word from the given alternatives.

(a) Earth
(b) Mars
(c) Sun

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(d) Venus

Q79. An object starts from rest at x = 0 m and moves with a constant acceleration of 3 m/s² along the x-axis. During its journey from x = 13.5 m to x = 54 m, its average velocity is:

(a) 13.5 m/s
(b) 12.0 m/s
(c) 8.5 m/s
(d) 10.0 m/s

Q80. How much heat should be transferred to a 100 g block of aluminum (specific heat 900 Jkg^(−1)K^(−1)) to increase its temperature by 10°C?

(a) 90 J
(b) 900 J
(c) 9 J
(d) 9000 J

Q81. A car accelerating for two seconds would cover _____ times the distance of a car accelerating for only one second (cars start from rest with the same acceleration in both cases).

(a) four
(b) two
(c) One
(d) three

Q82. When using an isometric view, you line up the drawing along three axis that are separated by _____ from each other.

(a) 180-degree
(b) 90-degree
(c) 120-degree
(d) 60-degree

Q83. A/An _____ view is an orthographic view that is projected onto any plane other than the frontal, horizontal, or profile plane,

(a) auxiliary
(b) bevel
(c) isometric
(d) parametric

Q84. A bearing or other device is needed to hold the beam in _____ lever/levers.

(a) Class 1 and 3
(b) Class 2
(c) Class 3
(d) Class 1

Q85. If the unit has one or more moving parts, the extreme positions of the moving parts are indicated in the:

(a) Continuous wavy line
(b) Long dashed double-dotted narrow line
(c) Continuous thick line
(d) Continuous thin line

Q86. What is the mean of 2, 5, 8, 14, 21?

(a) 10
(b) 9
(c) 8.5
(d) 9.5

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Q87. In how many years will the amount of Rs. 1200 double itself under compound interest system of 4% p.a.? (log 2 = 0.30102, log 1.04 = 0.01703)

(a) 18.5
(b) 17.67
(c) 19.33
(d) 20

Q88. The ratio of resistance to overcome to the effort applied is referred to as:

(a) Load
(b) Mechanical advantage
(c) Velocity of load
(d) Velocity of effort

Q89. What is the maximum number of auxiliary views of any given object?

(a) 6
(b) 1
(c) 3
(d) Infinite

Q90. When you double the speed of a car, it takes _____ times more distance to stop it.

(a) two
(b) three
(c) four
(d) one

Q91. Reflection of the point (2, 3) on the X-axis is:

(a) (−2, 3)
(b) (2, −3)
(c) (−2, −3)
(d) (3, 2)

Q92. A 0.5 kg ball is released from the top of a building of a height of 20 m. Find the kinetic energy of the ball, just before it hits the ground (assume g = 10 m/s²).

(a) 80 J
(b) 40 J
(c) 20 J
(d) 100 J

Q93. If we compare the effort arm length with the load arm length in a class 3 lever, then which of the below is true?

(a) effort arm length can be greater than, equal to or less than the length of the load arm
(b) effort arm length is always = load arm length
(c) effort arm length is always < load arm length
(d) effort arm length is always > load arm length

Q94. A steel rod with the thermal conductivity of 50.2 W /(m-K) has an area of cross-section 0.02 m² and length 15 cm. If the two ends of the rod are maintained at a temperature difference of 300°C, the rate of heat flow through the rod is:

(a) 2.0 kJ/s
(b) 1.0 kJ/s
(c) 4.0 kJ/s
(d) 3.0 kJ/s

Q95. Identify which of the below is not a Class 3 lever.

(a) Tweezers
(b) Wheelbarrow
(c) Hockey stick

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(d) Stapler

Q96. Good housekeeping is fundamental to:

(a) Work permits
(b) Good safety
(c) Bad safety
(d) Machine guards

Q97. "Pathfinder", an American Spacecraft, landed on the planet _____ in 1997.

(a) Moon
(b) Venus
(c) Mars
(d) Jupiter

Q98. _____ are those dimensions that should not necessarily appear on the drawing.

(a) Functional dimensions
(b) Non-functional dimensions
(c) Object dimensions
(d) Auxiliary dimensions

Q99. If a three digit number 7X6 is divisible by 11, then the value of X is:

(a) 3
(b) 2
(c) 1
(d) 4

Q100. The density of an ideal gas can be doubled by halving the _____.

(a) Pressure
(b) Mass
(c) Absolute temperature
(d) Velocity

PART B

Q101. Least count of steel rule is _____.

(a) 0.1 mm
(b) 0.05 mm
(c) 0.01 mm
(d) 0.5 mm

Q102. The included angle of lathe dead center

(a) 90 degree
(b) 30 degree
(c) 45 degree
(d) 60 degree

Q103. The surface connecting crest and root of a thread is termed as

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

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Q104. Pick the odd one out.

(a) Rolling
(b) Extrusion
(c) Knurling
(d) Forging

Q105. Jigs are available for:

(a) turning
(b) drilling and boring
(c) grinding
(d) milling

Q106. Which type of belt is used when the distance between the shafts is too short (<1 meter distance between drivers)?

(a) V - belt
(b) Ribbed belt
(c) Link belt
(d) Flat belt

Q107. Which of the following is NOT a type of comparator?

(a) Optical
(b) Pneumatic
(c) Manual
(d) Hydraulic

Q108. Plain ring gauges are used to check:

(a) accuracy of external threads
(b) accuracy of internal of work piece
(c) inside diameter of work piece
(d) outside diameter of work piece

Q109. Which of the following compass is used to scribe a circle or an arc with a large diameter?

(a) Trammel compass
(b) Ordinary compass
(c) Wing compass
(d) Spring compass

Q110. Which type of thread is used in screw jack?

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

Q111. Which of the following process is used for super finishing of bores in ferrous metals?

(a) Honing
(b) Grinding
(c) Filling
(d) Drilling

Q112. The ‘ring oiling system’ is also known as:

(a) Splash feed system
(b) Grease feed system
(c) Lubricator system [SU3]
(d) Force feed system

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Q113. Which of the following instrument is NOT used to measure angles?

(a) Clinometer
(b) Bevel protector
(c) Protector head
(d) Optical flats

Q114. Zinc coated iron is known as:

(a) Galvanised iron
(b) Black iron
(c) Cast iron
(d) Stainless sheet

Q115. Which of the following welding process uses carbon dioxide?

(a) Gas Tungsten Arc Welding (GTAW)
(b) Shielded Metal Arc Welding (SMAW)
(c) Gas Metal Arc Welding (GMAW)
(d) Submerged Arc Welding (SAW)

Q116. Which of the following marking media is used for filed or machine finished surfaces?

(a) White lead power mixed with turpentine
(b) Chalk powder mixed with water
(c) Chalk powder mixed with methylated spirit
(d) Prussian blue oil paint

Q117. The process of enlarging a hole size and enhancing its surface finish is known as _____.

(a) boring
(b) reaming
(c) drilling
(d) countersinking

Q118. Which material is used to make power hacksaw blades?

(a) High carbon steel
(b) Mild steel
(c) High speed steel
(d) Medium carbon steel

Q119. The measuring faces of the slip gauges are finished by _____.

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

Q120. What is the purpose of an idler gear used in gear trains?

(a) To increase the contact area of pulley and belt
(b) To obtain minimum center distance between driving and driven shaft
(c) To obtain maximum center distance between driving and driven shaft
(d) To have required direction of rotation

Q121. Which of the following is fitted on top of the compound rest of a lathe?

(a) Chuck
(b) Saddle
(c) Cross slide
(d) Top slide

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Q122. Which of the following lapping abrasives is used for obtaining high quality finish?

(a) Diamond
(b) Emery cloth
(c) Aluminium oxide
(d) Coarse grain abrasive

Q123. Tab washers are used:

(a) for locking the nuts
(b) to maintain bore diameter
(c) for dimensional accuracy
(d) for structural assemblies

Q124. Which of the following file is commonly used for finishing inside the teeth of gear wheels?

(a) Mill saw file
(b) Riffle file
(c) Barrette file
(d) Cross file

Q125. The dimension of a nut is expressed in terms of:

(a) pitch diameter of the bolt
(b) core diameter of the bolt
(c) nominal diameter of the bolt
(d) head of the bolt

Q126. Which of the following is NOT a type of common threaded fastener?

(a) Nail
(b) Bolt
(c) Screw
(d) Nut

Q127. Which of the following is used to block the pipe at one end?

(a) plug
(b) reducer
(c) union
(d) couplings

Q128. The main purpose of using Go and No Go gauge is to use it as _____?

(a) limit gauge
(b) radius gauge
(c) pitch gauge
(d) slip gauge

Q129. What is the percentage of tin in soft solder?

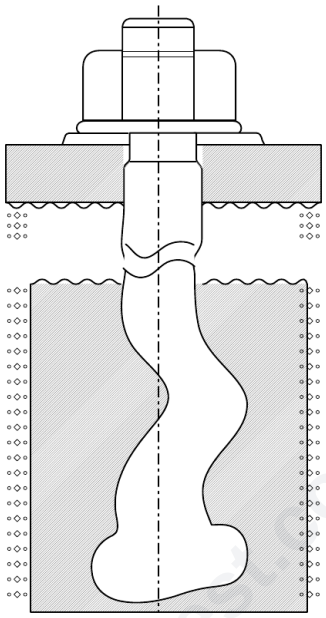
(a) 30%
(b) 63%
(c) 42%
(d) 50%

Q130. Which of the following types of the gear set is used to change rotary into linear movement and vice versa?

(a) Bevel gear
(b) Hypoid gear
(c) Spiral Bevel Gear
(d) Rack and pinion

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Q131. Identify the type of bolt shown in the given figure.



(a) Bent Foundation Bolt
(b) Rag Foundations Bolt
(c) Eye foundation bolt
(d) Lewis Foundation Bolt

Q132. What is the cross-sectional size of a slip gauge?

(a) 42 mm × 9 mm
(b) 22 mm × 9 mm
(c) 32 mm × 9 mm
(d) 52 mm × 9 mm

Q133. Which nut can be easily operated with thumb and finger?

(a) Capstan Nut
(b) Dome Nut
(c) Wing Nut
(d) Lock Nut

Q134. Which of the following is the temperature at which lubricant will start to flow when poured?

(a) Viscosity
(b) Flash point
(c) Oiliness
(d) Pour point

Q135. Which of the following belt materials can withstand acidic and wet conditions?

(a) Leather
(b) Rubber
(c) Balata
(d) Cotton

Q136. Which of the following material is used to make a tip of a center punch?

(a) Cast iron
(b) Zinc
(c) High carbon steel
(d) Copper

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Q137. To hold cutting tools like drills and reamers in the lathe machine _____ is used

(a) Head stock
(b) Cross slide
(c) Tool post
(d) Tail stock

Q138. Which of the following material, the outer part of a holding jaw of in a bench vice is made up of?

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

Q139. 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

Q140. Conventionally, what type of surface is produced by a turning operation in a lathe machine?

(a) Cylindrical
(b) Square
(c) Flat
(d) Irregular shape

Q141. Which of the following gauge is used to determine the pitch of a thread?

(a) Feeler Gauge
(b) Radius Gauge
(c) Screw Pitch Gauge
(d) Plus Gauge

Q142. What is the most commonly standard length of a feeler gauge blade?

(a) 25 mm
(b) 65 mm
(c) 100 mm
(d) 50 mm

Q143. Find the tap drill size, if the major diameter is 10 mm and the pitch is 1.5 mm.

(a) 8 mm
(b) 8.5 mm
(c) 7.5 mm
(d) 9 mm

Q144. What material is used to make file?

(a) low carbon steel
(b) high carbon steel
(c) aluminum
(d) cast iron

Q145. What is measured by the vernier bevel protractor?

(a) Angle
(b) Outer diameter
(c) Thickness
(d) Inner diameter

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Q146. Which of the following gauges is used to check the diameter of a wire?

(a) Plate Gauge
(b) Wire gauge
(c) Radius gauge
(d) Reaper Gauge

Q147. Why surface plates are used for marking?

(a) Because it can withstand heavy weight job
(b) Because the marking tools can be placed over it
(c) Because its surface is too big
(d) Because it provides datum surface / base

Q148. What is the least count of the vernier bevel protractor?

(a) 5' (minute)
(b) 15 '(minute)
(c) 20 '(minute)
(d) 10 '(minute)

Q149. Which of the following is used to hold pipes between φ 50 mm and φ 150 mm?

(a) Chain pipe wrench
(b) Footprint wrench
(c) Bench Vice
(d) Socket wrench

Q150. What is the accuracy of Vernier height gauge?

(a) 0.02 mm
(b) 0.01 mm
(c) 0.2 mm
(d) 0.1 mm

Q151. What is the color of an oxygen gas cylinder?

(a) Maroon
(b) Blue
(c) Green
(d) Black

Q152. Identify the standard form of the pipe thread from the given options.

(a) BSW
(b) BSP
(c) BSF
(d) BA

Q153. The number of fundamental tolerance in the Indian Standard System are:

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

Q154. Which of the following is not a conventional type of welding process?

(a) Arc welding
(b) Gas Welding
(c) Friction Welding
(d) Thermit Welding

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Q155. How can aluminum be identified visually in a group of workpieces made of aluminium, brass, copper and mild steel?

(a) High ductility
(b) Observing of cutting chips
(c) Observing silvery appearance
(d) Light weight

Q156. In which of the following locking nuts, is a slot cut halfway across the nut?

(a) Slotted Nut
(b) Swan nuts
(c) Castle Nut
(d) Grooved Nut

Q157. What type of maintenance is most effective?

(a) Shutdown Maintenance
(b) Corrective Maintenance
(c) Breakdown maintenance
(d) Preventing Maintenance

Q158. Which of the following is NOT used to connect two shafts together in order to transmit power?

(a) Bolts
(b) Ball bearings
(c) Couplings
(d) Keys

Q159. 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

Q160. Which hand tool is used to form internal thread in a hole?

(a) Scrapper
(b) Tap
(c) Drill
(d) Reamer

Q161. _____ 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

Q162. The property of a metal to draw it into thin sheets is termed as _____.

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

Q163. What is the purpose of a non-return valve in a water pipe line?

(a) It enables three-way flow
(b) It enables one- way flow
(c) It enables four- way flow
(d) It enables two- way flow

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Q164. What is the purpose of a globe valve in a pipeline?

(a) It provide strength to the joint
(b) It avoids water from getting heated
(c) It controls water flow
(d) It avoids vacuum being formed

Q165. Twist drills are made up which of the following materials?

(a) High speed steel
(b) Titanium
(c) Mild steel
(d) Medium carbon steel

Q166. When the size of a smallest hole is bigger than the size of the biggest shaft, then it is called as a/an ____.

(a) interference fit
(b) progressive fit
(c) clearance fit
(d) transition fit

Q167. What is a metal's ability to withstand wear, abrasion and penetration called?

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

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

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

Q169. Which material is used to make races of ball bearings?

(a) Brass
(b) Chromium steel
(c) Cast iron
(d) Plastic

Q170. A feeler gauge is used for

(a) Checking accuracy of holes
(b) Checking gap between the mating parts
(c) Checking radii of jobs
(d) Adjusting the parts for play

Q171. Which among the following is the use of a GO gauge?

(a) To check the size of a hole
(b) To check surface finish
(c) To measure thread angle
(d) To measure thickness of a plate

Q172. Which one of the following is a multi-point cutting tool?

(a) File
(b) Hammer
(c) Scrapper
(d) Chisel

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Q173. The type of thread used in lead screw of a lathe is _____

(a) Knuckle thread
(b) Square thread
(c) Worm thread
(d) Buttress thread

Q174. If you want to drill a hole in a switchboard, then you will use a ____.

(a) pillar-drill machine
(b) radial-drill machine
(c) hand-drill machine
(d) bench-drill machine

Q175. The difference between the maximum limit of size and minimum limit of size in assembling a product is known as:

(a) Basic size
(b) Deviation
(c) Zero line
(d) Tolerance

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
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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