RRB ALP Mechanic Diesel 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 θ = 15/17, then cot θ = ?

(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?

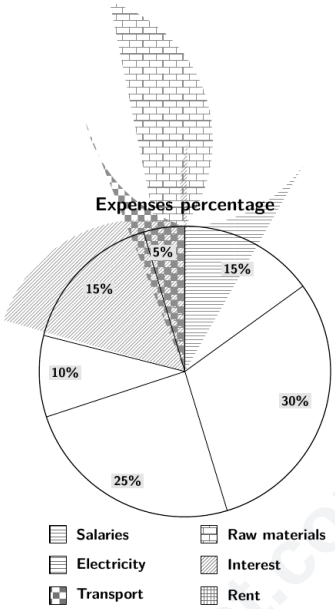
(a) 8
(b) 10
(c) 11
(d) 9

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)?

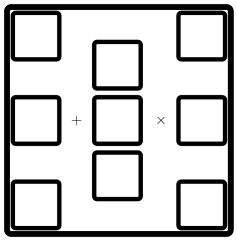
(a) 3
(b) 6
(c) 9
(d) 7.5

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

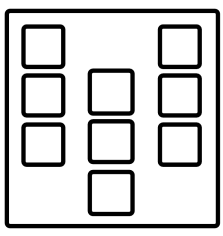
(a) 30
(b) 34
(c) 32
(d) 36

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

(a)

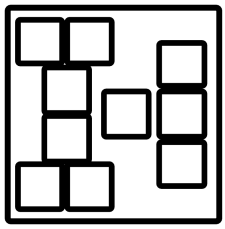


(b)

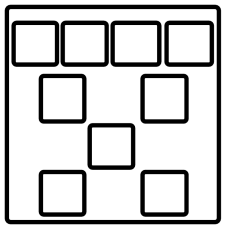


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(c)



(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 = ?

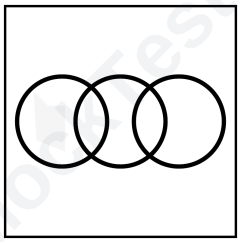
(a) 20
(b) 10
(c) 12
(d) 16

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?

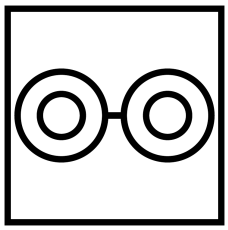
(a) I – J + F * H
(b) I + J - F * H
(c) I – J * F + H
(d) I * J - F + H

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

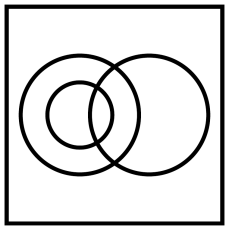
(a)



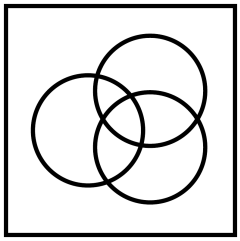
(b)



(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.

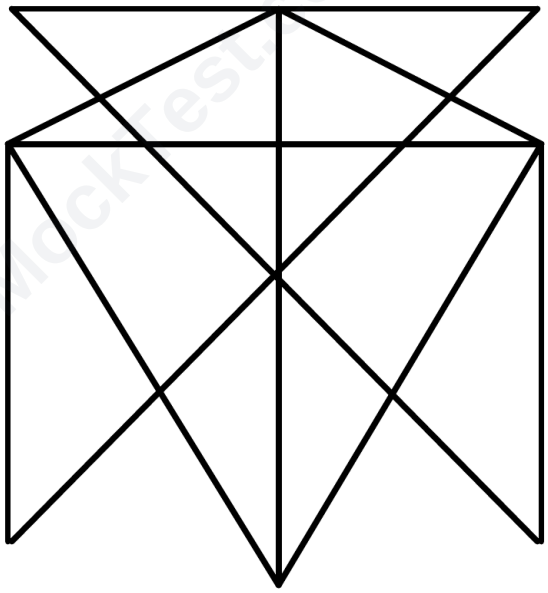
(a) Neither I nor II follows
(b) Only conclusion II follows
(c) Only conclusion I follows
(d) Both I and II follow

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

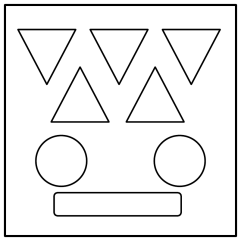
Q79. Find the odd group of letters from the given alternatives.

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

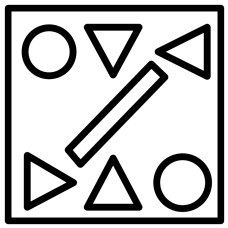
Q80. Choose the figure that is different from the rest.

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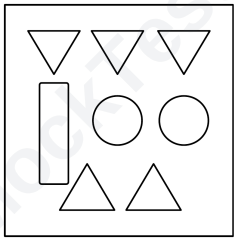
(a)



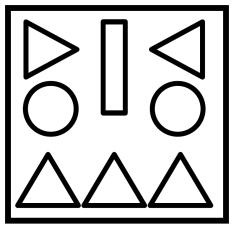
(b)



(c)



(d)

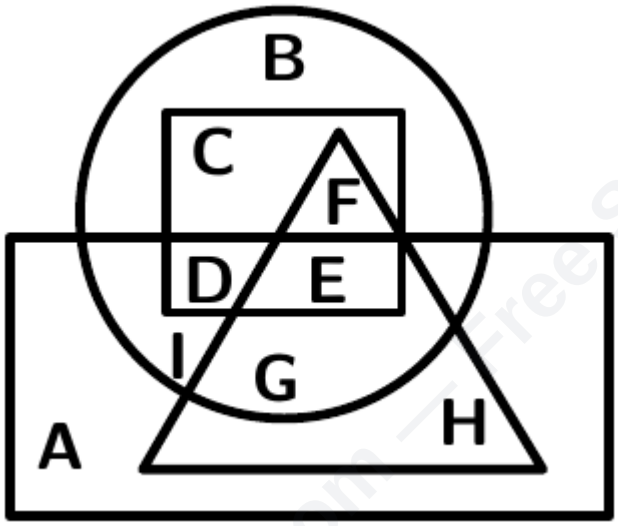


Q81. In a code language, 295 means ‘water is liquid’, 549 means ‘oil is liquid’ and 824 means ‘oil on water.’ Find the code for ‘on’.

(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. SAE stands for _____.

(a) Society of American Engineer
(b) Society of Atomic Energy
(c) Society of Automobile Industry
(d) Society of Automobile Engineer

Q102. The meaning of calibration of injection pump is that what a plunger supply in full quantity to cylinders. Choose the best option among the following.

(a) Power
(b) Fuel
(c) Compression
(d) Pressure

Q103. A pressure relief valve is fitted in between a/an _____.

(a) oil pump and filter
(b) oil strainer and filter
(c) oil strainer and oil pump
(d) main oil gallery and filter

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Q104. Pre-combustion chambers are used in which of the following?

(a) Direct injection (DI) engines
(b) Indirect injection (IDI) engines
(c) Multi-point fuel injection (MPFI) engines
(d) Common rail direct injection (CRDi) engines

Q105. Generally the piston rings are made of _____.

(a) cast iron
(b) wrought iron
(c) high carbon steel
(d) medium carbon steel

Q106. Which filtering material is used in a secondary fuel filter?

(a) Plastic
(b) Felt
(c) Cloth
(d) Paper

Q107. Which type of regulator is used in an alternator?

(a) Cut out regulator
(b) Sealed regulator
(c) Open type
(d) Charging regulator

Q108. A secondary filter of a diesel fuel system is made by which material?

(a) Cotton
(b) Brass
(c) Paper
(d) Bronze

Q109. A turbo charger is driven by whom?

(a) Crank pulley
(b) Exhaust gas pressure
(c) Cam shaft
(d) Gear box

Q110. A wet type air cleaner is also known as a/an _____.

(a) oil bath air cleaner
(b) paper type air cleaner
(c) cloth type air cleaner
(d) dry type air cleaner

Q111. Allen key is also known as a/an _____.

(a) hollow set screw wrench
(b) open end wrench
(c) pipe wrench
(d) adjustable wrench

Q112. A four-stroke cycle engine produces one power stroke in _____.

(a) four revolutions of a crankshaft
(b) two revolutions of a crankshaft
(c) three revolutions of a crankshaft
(d) one revolution of a crankshaft

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Q113. Valve spring tension test is conducted by which equipment?

(a) Spring tension tester
(b) Scale
(c) Hydraulic press
(d) Torque wrench

Q114. The exhaust manifold is connected to the cylinder head of an engine by _____.

(a) a cork sheet gasket
(b) a copper gasket
(c) a fibre gasket
(d) an asbestos gasket

Q115. Connecting rod is made of which material?

(a) Aluminium
(b) Cast iron
(c) Iron
(d) Forged steel

Q116. The material of an inlet valve is _____.

(a) chrome vanadium steel
(b) silicon chrome alloy
(c) stainless steel
(d) nickel chromium alloy steel

Q117. What that period is called in which both, the exhaust valve and the inlet valve remain open?

(a) Open lap
(b) Over lap
(c) Closed lap
(d) Over sap

Q118. The simplest type of a seam is a _____.

(a) double seam
(b) double groove seam
(c) groove seam
(d) lap seam

Q119. In an alternator, which part converts AC to DC supply?

(a) Commutator
(b) Pole shoe
(c) Diode rectifier
(d) Carbon brush

Q120. The firing order of a four-cylinder engine is _____.

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

Q121. Clutch is a part of:

(a) the lubrication system
(b) the transmission system
(c) the exhaust system
(d) the suspension system

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Q122. Which type of thermostat is most commonly used in modern automobiles?

(a) Bellow type
(b) Bi-metal type
(c) Wax type
(d) Plunger type

Q123. Opening and closing of valves in relation to piston movement is called _____.

(a) valve relacing
(b) valve grinding
(c) valve lapping
(d) valve timing

Q124. What is the full form of CRDI?

(a) Common Rail Duo Injection
(b) Common Rail Direct Injection
(c) Common Rail Dual Injection
(d) Common Rail Digital Injection

Q125. In a turbocharger, the turbine wheel housing is connected to:

(a) the flywheel side
(b) the front of the engine block
(c) the intake manifold
(d) the exhaust manifold

Q126. The two screws fitted over the fuel filter are called _____.

(a) knurling screws
(b) bleeding screws
(c) cutting screws
(d) feeding screws

Q127. How a turbine is rotated in a turbo-charger?

(a) By Exit gases from muffler
(b) By Exit gases from tail pipe
(c) By exhaust gas of exhaust manifold
(d) By gases from catalytic converter

Q128. What is the task of an EGR valve?

(a) To reduce HC
(b) To reduce NOx
(c) To reduce CO2
(d) To reduce N2

Q129. The ratio of total volume of cylinder to its clearance volume is known as _____.

(a) compression ratio
(b) clearance volume
(c) swept volume
(d) compression pressure

Q130. Inline engines give better balancing and more uniform _____.

(a) torque
(b) efficiency
(c) energy
(d) speed

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Q131. Which type of oil pump is used in stationary diesel engines?

(a) Rotary type
(b) Plunger type
(c) Vane type
(d) Gear type

Q132. In which type of a lubrication system, oil pump lifts the oil from a sump and passes it into a filter and then into the main gallery?

(a) Petrol mix lubrication
(b) Full flow
(c) Bypass
(d) Gravity feed lubrication

Q133. Ring expander tool is used for fitting a _____.

(a) piston ring
(b) connecting rod
(c) crankshaft
(d) piston

Q134. How are exhaust gases emitted out of the oil sump in diesel engines?

(a) Through the oil cooler
(b) Through the oil filter
(c) Through the air cleaner
(d) Through the breather pipe

Q135. On which angle a valve is generally placed on head?

(a) 30°
(b) 45°
(c) 15°
(d) 90°

Q136. In the common rail direct injection system, the injectors are opened and closed by:

(a) a reed valve
(b) a CB point
(c) a poppet valve
(d) a solenoid valve

Q137. The time before which the valve opens is called _____

(a) Lapping
(b) Valve lead
(c) Over lap
(d) Valve gap

Q138. A valve seat is ground by which equipment?

(a) Surface grinder
(b) Portable grinder
(c) Grinder
(d) Special type of valve seat refacer

Q139. The distance between the centre line of front & rear wheels from side view is _____.

(a) Wheel base
(b) Rear overhung
(c) Wheel track
(d) Front Overhung

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Q140. When a piston is at BDC, the clearance between cylinder head to piston head is known as _____

(a) clearance volume
(b) piston displacement
(c) swept volume
(d) total volume

Q141. When a valve stays open late it is known as _____.

(a) valve overlap
(b) valve lag
(c) valve lead
(d) valve duration

Q142. A _____ is used to check the specific gravity of a battery.

(a) voltmeter
(b) multimeter
(c) hydrometer
(d) cell tester

Q143. In a water cooling system the thermostat opens at _____

(a) 100° C
(b) 90° C
(c) 85° C
(d) 91° C

Q144. For cleaning the dirt on a welding bead, which tool is used?

(a) Chipping hammer
(b) Brush
(c) Painting brush
(d) Hammer

Q145. What is the name of the middle part of a connecting rod which connects the head and the big end?

(a) Neck
(b) Shank
(c) Tank
(d) Mack

Q146. Which engine has a maximum fuel efficiency?

(a) Radial engine
(b) Inline engine
(c) 'V' engine
(d) Opposed engine

Q147. Which type of starting system needs compressed air?

(a) Air starting method
(b) Manual starting method
(c) Gasoline engine starting method
(d) Electric starting method

Q148. A cylinder block manufactured in a single piece is called a _____.

(a) Inverted Cylinder
(b) Try cylinder
(c) Monoblock cylinder
(d) Flat Cylinder

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Q149. Which tool should be used for fitting a ring in a piston?

(a) Ring expander tool
(b) Pipe wrench
(c) Ring screwdriver
(d) Plier

Q150. A cylinder block of a two wheeler engine is generally made up of which metal?

(a) Cast iron
(b) Copper
(c) Aluminium
(d) Iron

Q151. Where is a thermostat valve connected in a pressured water cooling system?

(a) Water jacket
(b) Water outlet elbow
(c) Water pump inlet
(d) Below the radiator

Q152. Where is the temperature gauge located in a vehicle, which indicates the temperature of the engine's coolant or water?

(a) Steering
(b) Radiator
(c) Engine
(d) Dashboard

Q153. In a diesel engine during the exhaust stroke, what is emitted out of the tail pipe?

(a) NO_x
(b) CO_2
(c) CO
(d) N_2

Q154. The small hole present on the body of a pintaux nozzle is called:

(a) the main hole
(b) the sub-hole
(c) the auxiliary hole
(d) the vibrated hole

Q155. In which of the following circuits, a solenoid switch is used?

(a) Charging circuit
(b) Electrical circuit
(c) Starting circuit
(d) Ignition circuit

Q156. Quantity of fuel and its timing is controlled by _____.

(a) Feed Pump
(b) Oil pump
(c) Fuel Injection Pump
(d) AC mechanical fuel pump

Q157. Compression ratio of a diesel engine is _____

(a) 24 : 1 to 30 : 1
(b) 15 : 1 to 19 : 1
(c) 10 : 1 to 12 : 1
(d) 16 : 1 to 24 : 1

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Q158. Which of the following is NOT a property of a lubricant?

(a) Ash point
(b) Flash point
(c) Pour point
(d) Fire point

Q159. Which type of fuel feed pump is used in conventional inline fuel injection pumps?

(a) Gear type
(b) Plunger type
(c) Vane type
(d) Electrical type

Q160. Which metal is a radiator generally made up of ?

(a) Steel
(b) Copper
(c) Iron
(d) Cast iron

Q161. A commutator is made of which of the following?

(a) Aluminium segments
(b) Iron segments
(c) Brass segments
(d) Copper segments

Q162. The portion which joins a main journal and a crankpin is called the _____.

(a) web
(b) balance weight
(c) throw
(d) crank Journal

Q163. Compression ratio of a petrol engine is _____

(a) 30 : 1
(b) 24 : 1
(c) 78 : 1
(d) 8 : 1

Q164. Which part of a sump in an engine indicates the level of the oil?

(a) Feeler gauge
(b) Plastic gauge
(c) Dip stick
(d) Oil pressure gauge

Q165. How much more power is available in an engine after fitting the turbo super charger?

(a) 50% to 60%
(b) 20% to 30%
(c) 10% to 15%
(d) 25% to 40%

Q166. Compression pressure of a diesel engine is _____

(a) 200 to 400 PSI
(b) 150 to 180 PSI
(c) 350 to 450 PSI
(d) 450 to 600 PSI

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Q167. The gap between the inside diameter of an installed bearing and the outside diameter of the crankshaft journal is called _____.

(a) Valve clearance
(b) Part clearance
(c) Oil clearance
(d) Tappet clearance

Q168. Valve clearance is also called as _____.

(a) tappet lifting
(b) valve lifter
(c) tappet
(d) tappet clearance

Q169. During the compression stroke in four-stroke cycle engine _____.

(a) both the valves close
(b) inlet opens, exhaust closes
(c) both the valves open
(d) exhaust opens and inlet closes

Q170. How many compression rings are fitted in a piston for proper functioning of a compression stroke?

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

Q171. Main function of a lubricant is to _____.

(a) maintain wetness between two moving parts.
(b) To improve the aesthetic look of the parts
(c) To increase the hardness of the parts with which it is in contact
(d) minimise the friction between two moving parts.

Q172. The brake horse power of an engine is measured by which equipment?

(a) Dynamometer
(b) Multimeter
(c) Voltmeter
(d) Ammeter

Q173. The distance travelled by a piston from TDC to BDC is called _____.

(a) cubic capacity
(b) clearance volume
(c) swept volume
(d) stroke

Q174. Galvanized iron sheet is also called as a _____.

(a) black iron sheet
(b) tin sheet
(c) brass sheet
(d) GI sheet

Q175. The roller of a feed pump is operated by a/an _____.

(a) crank pin
(b) crankshaft
(c) camshaft
(d) eccentric cam of an FIP camshaft

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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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