RRB Group D 2022 Previous Year Paper Shift 1

RRB Group D • 2022 • 100 questions • 90 minutes • Answer key

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GENERAL SCIENCE

Q1. Select the number from among the given options that can replace the question mark (?) in the following series.

1, 2, 11, 36, 85, ?, 287

(a) 184
(b) 166
(c) 168
(d) 90

Q2. A ray of light is incident on a refracting surface AB of a glass prism, kept in air, and emerges out of the other refracting surface AC. Consider the following statements:

(a) The angle of refraction at surface AB is less than the angle of incidence.

(b) The angle of refraction at the surface AC is more than the angle of incidence.

Which of the above statements is/are correct?

(a) Neither (a) nor (b)
(b) Only (b)
(c) Both (a) and (b)
(d) Only (a)

Q3. The sum of two consecutive multiples of 6 is 66. Find the smaller of these two multiples.

(a) 36
(b) 24
(c) 30
(d) 42

Q4. This question is based on the five, three-digit numbers given below.

(Left) 429 847 922 213 757 (Right)

(Example: 697 - first digit = 6, second digit = 9, third digit = 7)

NOTE: All operations to be done from left to right.

If all the numbers are arranged in descending order, the position of how many numbers will remain unchanged?

(a) 1
(b) 2
(c) 3
(d) 0

Q5. Which of the following statements is correct?

(a) Biodegradable substances persist for a long time in the environment.
(b) Non-biodegradable substances cannot be decomposed by physical processes like heat and pressure.
(c) Non-biodegradable substances help the various members of the ecosystem.
(d) Enzymes, bacteria or other saprophytes act on biodegradable substances and decompose them.

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Q6. Generally, a Gram Panchayat is constituted for _____ year/s.

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

Q7. Two numbers are in the ratio 2 : 7. If the first number is increased by 14 and the second number is decreased by 6, then the ratio becomes 4 : 3. What is the sum of the original two numbers?

(a) 27
(b) 45
(c) 18
(d) 36

Q8. Study the Venn diagram given below and answer the question that follows.

How many non-graduate officers are neither administrators nor engineers?

(a) 8
(b) 9
(c) 67
(d) 76

Q9. A trader gives 5% discount on the marked price of an article and gives 2 articles free for buying 14 articles and gains 33⅓% in the entire transaction. Assuming a customer pays for 14 articles, the marked price of an article is what per cent more than its cost price?

(a) 48%
(b) 60%
(c) 50%
(d) 55%

Q10. A statement is given followed by two assumptions numbered I and II. You have to assume everything in the statement to be true and decide which of the assumptions is/are implicit in the statement.

Statement:

Increase in the tax rates will hurt the pockets of the salaried middle class.

Assumptions:

I. Increase in the prices of goods will hurt the poor too.

II. The middle class will reduce their extra expenditure to save money.

(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

Q11. If the length of a rectangle is thrice its breadth and the perimeter of that rectangle is 48 cm, then find its breadth.

(a) 4 cm
(b) 8 cm
(c) 9 cm
(d) 6 cm

Q12. Seven people, A, B, C, D, E, F and G, are sitting in a straight row, facing north. Only three people sit between F and E. Only two people sit to the left of F. D is not an immediate neighbour of E. D sits second to the right of A. G sits to the immediate right of B. Who sits at the extreme left end of the row?

(a) D
(b) C
(c) A
(d) B

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Q13. Which of the following properties is NOT governed by the position of elements in the Periodic Table?

(a) Colour of element
(b) Valency
(c) Atomic size
(d) Electrons present in outermost shell

Q14. Which of the following point(s) always lie(s) on the principal axis of a lens?

(i) Point of refraction
(ii) Optical Centre
(iii) Point of incidence

(a) Only (i)
(b) Both (i) and (ii)
(c) Both (i) and (iii)
(d) Only (ii)

Q15. The total surface area of a solid cylinder having radius 24 cm and height 6 cm is:

(a) 3440 π cm^2
(b) 1440 π cm^2
(c) 2440 π cm^2
(d) 4440 π cm^2

Q16. Which of the following organisms shows a parasitic nutritive strategy?

(a) Mushroom
(b) Cuscuta
(c) Amoeba
(d) Yeast

Q17. A train travelling at a speed of 45 km/h crosses a pole in 24 sec. What is the length of the train?

(a) 1.5 m
(b) 300 m
(c) 125 m
(d) 30 m

Q18. Simplify the given expression.

$(13^2 - 5^2)^{3/2} \times 8^{2/3} \div (1/6)^{\wedge -3}$

(a) 24
(b) 32
(c) 16
(d) 12

Q19. Clouds appear white during sunshine because the particles in clouds are ____ than the wavelength of different colours in white light coming from the sun and all colours of white light are scattered by ____ amount(s).

(a) larger, about the same
(b) smaller, different
(c) larger, different
(d) smaller, about the same

Q20. Raghav starts from Point A and drives 16 km towards the north. He then takes a right turn, drives 10 km, turns right and drives 17 km. He then takes a right turn and drives 13 km. He takes a final right turn, drives 1 km and stops at Point P. How far and towards which direction should he drive in order to reach Point A from Point P in a straight line? (All turns are 90 degree turns only)

(a) 5 km towards the north
(b) 3 km towards the west
(c) 1 km towards the south
(d) 3 km towards the east

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Q21. Amongst six friends P, Q, R, S, T and U, each has a different height. S is taller than only four other friends. R is taller than only one friend. U is taller than T but shorter than P. P is not the tallest. Who is the second tallest among all the friends?

(a) T
(b) S
(c) P
(d) Q

Q22. Study the Venn Diagram given below and answer the question that follows.

How many volunteers are supervisors but neither donors nor field workers?

(a) 33
(b) 14
(c) 0
(d) 8

Q23. Who is the highest law officer in India?

(a) Advocate General of India
(b) Attorney General of India
(c) President of India
(d) Prime Minister of India

Q24. Select the number from among the given options that can replace the question mark (?) in the following series.

58, 118, 208, 334, ?, 718

(a) 512
(b) 502
(c) 524
(d) 510

Q25. In the Government Budget, when the expenses made by a nation are more than the source of income, then the difference between the income and expenses is termed as _____.

(a) Revenue Deficit
(b) Unbalanced Budget
(c) Financial Statement
(d) Budget Deficit

MATHEMATICS

Q26. If '+' means '×', '-' means '+', '×' means '÷', and '÷' means '-', what will come in place of the question mark (?) in the following equation?

40 − 17 + 3 ÷ 25 × 5 = ?

(a) 88
(b) 90
(c) 86
(d) 92

Q27. Which Fundamental Duty was added through the 86th Constitutional Amendment Act, 2002?

(a) The 11th Fundamental Duty
(b) The 10th Fundamental Duty
(c) The 8th Fundamental Duty
(d) The 9th Fundamental Duty

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Q28. An object is placed in front of a concave mirror at a distance equal to its focal length. The image is formed at:

(a) infinity
(b) a point between F and C
(c) a point between P and F
(d) C

Q29. Y, Z, A, B, C and D live on six different floors of the same building. The lowermost floor in the building is numbered 1, the floor above it number 2, and so on till the topmost floor is numbered 6. Only Y lives on the floor between the floors occupied by D and C. B lives on an even numbered floor, but not on floor 6. Z lives on the lowermost floor. D is immediately above B. Who is on the topmost floor?

(a) A
(b) C
(c) Y
(d) D

Q30. Study the Venn Diagram given below and answer the question that follows.

How many female engineers are drivers but NOT doctors?

(a) 22
(b) 19
(c) 13
(d) 8

Q31. NABARD and which of the following organisations has jointly launched the Adavi brand to market the forest produce harvested by Nilambur tribes people?

(a) Jan Sikshan Sansthan
(b) Sarva Sikshan Sansthan
(c) Sarva Raksha Sansthan
(d) Jan Raksha Sansthan

Q32. The mean and the mode of a set of data are 58.7 and 61.1, respectively. Find the median of the data, using the empirical formula.

(a) 59.5
(b) 55.8
(c) 55.2
(d) 54.6

Q33. The magnetic field around a current carrying conductor:

(a) decreases with increase in distance
(b) is unaffected by any variation in distance
(c) increases with increase in distance
(d) remains constant with increase in distance

Q34. A shopkeeper marks an article at Rs. x and offers a discount of 20% on it. He sells it for Rs. 432 after charging VAT of 12.5% on the discounted price. What is the value of Rs. x?

(a) Rs. 450
(b) Rs. 500
(c) Rs. 520
(d) Rs. 480

Q35. In a certain code language, 'GAURD' is written as 'LDYTE' and 'CLOVE' is written as 'HOSXF'. How will 'HORSE' be written in that language?

(a) DGOJO
(b) IHFGD
(c) MORDG
(d) MRVUF

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Q36. Sri Lanka is separated from India by a narrow channel of sea called the _____.

(a) Palk Strait
(b) Malacca Strait
(c) Sunda Strait
(d) Otranto Strait

Q37. A retailer permits a trade discount of 25% followed by a cash discount of 8% on the already discounted price of his goods, and still makes a net gain of 17.3% of the cost price. At what percentage above the cost price of the goods is the marked price fixed?

(a) 50%
(b) 75%
(c) 70%
(d) 60%

Q38. The Tamil language was declared as the classical language of India in _____.

(a) 2005
(b) 2002
(c) 2004
(d) 2003

Q39. Select the set in which the numbers are related in the same way as are the numbers of the following sets.

(NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding /deleting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)

(14, 98)

(22, 242)

(a) 12, 132
(b) 16, 80
(c) 6, 18
(d) 8, 48

Q40. In this question, a statement is followed by four conclusions. Find out which conclusion is true based on the given statement.

Statement:

$E \geq R = S \leq T < N > O = Z$

Conclusions:

1. $E \geq S$
2. $T \geq E$
3. $R > N$
4. $T < Z$

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

Q41. Which of the following schemes aims to establish a lab focusing on the development of sustainable technologies for a rural area?

(a) Clinical Training/Translational Research Workshops
(b) Clinical/Public Health Research Centre Schemes
(c) Cross-Cutting and Futuristic Initiatives
(d) Cognitive Science Research Initiative (CSRI)

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Q42. The cost of 12 pens and 7 pencils is Rs. 233. If the cost of a pen decreases by Rs. 1.50 and the cost of a pencil increases by Rs. 1, then the cost of 2 pens and 3 pencils is Rs. 48. What is the original cost of 4 pens and 1 pencil?

(a) Rs. 74
(b) Rs. 77
(c) Rs. 78
(d) Rs. 71

Q43. _____ established by Atmaram Pandurang in Bombay (Mumbai) in 1867, was a movement for religious and social reform.

(a) Satya Shodhak Samaj
(b) Prarthana Samaj
(c) Brahmo Samaj
(d) Arya Samaj

Q44. If the current passing through a conductor is doubled and the potential difference is tripled then the power will increase:

(a) three fold
(b) five fold
(c) six fold
(d) two fold

Q45. Maru Sri (or Maru Shri) is a desert pageant held at the _____.

(a) Hornbill Festival
(b) Jaisalmer Desert Festival
(c) Pushkar Fair
(d) Goa Carnival

Q46. Identify the double displacement reaction from the following.

(i) $2AgCl(s) \rightarrow 2Ag(s) + Cl2\ (g)$
(ii) $Mg(s) + 2HCl(aq) \rightarrow MgCl2\ (aq) + H2\ (g)$
(iii) $2KBr(aq) + BaI2\ (aq) \rightarrow 2KI(aq) + BaBr2\ (s)$
(iv) $Pb(s) + CuCl2\ (aq) \rightarrow PbCl2\ (aq) + Cu(s)$

(a) (iii)
(b) (iv)
(c) (ii)
(d) (i)

Q47. Which of the following elements has the highest effective nuclear charge?

(a) C
(b) F
(c) B
(d) Li

Q48. The positive square root of $(34^2 - 16^2)$ is:

(a) 50
(b) 40
(c) 30
(d) 60

Q49. Four friends Aman, Renu, Mohan and Rakesh are sitting at the corners of a square table and all are facing the centre. Only two persons are sitting between Aman and Renu. Rakesh is sitting to the immediate right of Mohan. If Aman is sitting immediately to the left of Mohan, which of the following statements is definitely true?

(a) Aman is sitting diagonally opposite to Mohan.
(b) Aman is sitting diagonally opposite to Renu.
(c) Rakesh is sitting diagonally opposite to Mohan.

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(d) Renu is sitting diagonally opposite to Mohan.

Q50. Refer to the following letter, number, symbol series and answer the question.

(Left) D 2 R X 5 8 T ^ & 9 3 H 8 C % K T A # 3 T 5 4 S % 9 & R % 5 (Right)

If all the letters are dropped from the series, which of the following will be in the middle of the series formed?

(a) S
(b) 5
(c) %
(d) #

GENERAL INTELLIGENCE AND REASONING

Q51. If angles A, B, C and D of a quadrilateral ABCD, taken in order, are in the ratio 3 : 7 : 6 : 4, then ABCD is a:

(a) trapezium
(b) parallelogram
(c) rhombus
(d) kite

Q52. Consider the below statements and identify the correct answer.

Statement-I: The metals high up in the reactivity series are very reactive.

Statement-II: The metals high up in the reactivity series can be obtained from their compounds by electrolytic reduction.

(a) Both the statements are true.
(b) Statement-II is true, and Statement-I is false.
(c) Both the statements are false.
(d) Statement-I is true, and Statement-II is false.

Q53. In March 2022, Indian badminton player _____ defeated Olympic champion Viktor Axelsen to enter the men's singles final of the German Open Tournament.

(a) Lakshya Sen
(b) Chirag Shetty
(c) B Sai Praneeth
(d) Srikanth Kidambi

Q54. In February 2022, scientists from Defence Research and Development Organisation (DRDO) and _____ successfully demonstrated Quantum Key Distribution link between Prayagraj and Vindhyachal in Uttar Pradesh.

(a) Indian Institute of Technology (IIT) Delhi
(b) Indian Institute of Technology (IIT) Madras
(c) Indian Institute of Technology (IIT) Kharagpur
(d) Indian Institute of Technology (IIT) Kanpur

Q55. Study the given graph and answer the question that follows.

The graph presents the number of athletes that qualified for national camp during the years 2015 to 2021.

By what percentage (approximately) have the girls qualified more than the boys in the given years taken together?

(a) 46%
(b) 25%
(c) 15%
(d) 33%

Q56. In a certain code language, 'PUTRE' is written as 'RXXWK' and 'DGHIKL' is written as 'FJLPR'. How will 'ZSHJL' be written in that language?

(a) BVROL
(b) BVLRO
(c) BRVOL

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(d) BVLOR

Q57. The figure given below shows the different stages of gradual decay of tooth in humans. All of the following statements related to tooth decay are correct except one. Which one is NOT correct?

(a) Acids soften the enamel, causing tooth ache and tooth loss
(b) Bacteria break down sugars and produce acids
(c) Bacteria act on leftover food in the mouth
(d) No role of bacteria, caused by a virus

Q58. Select the correct match in the context of microfinance.

(a) Grameen Bank – Bhutan
(b) Muhammad Yunus – Sri Lanka
(c) Muhammad Yunus – Vishvaas Bank
(d) Muhammad Yunus – Grameen Bank

Q59. The river _____ flows through the Chotanagpur Plateau.

(a) Meghna
(b) Damodar
(c) Tungabhadra
(d) Bhima

Q60. Pole A is to the west of pole B and north of pole D. Pole E is to the east of pole D, and pole C is to the west of pole D. What is the position of pole D with respect to pole B?

(a) South
(b) North
(c) North-east
(d) South-west

Q61. The sides (in cm) of a right triangle are (x - 2), (x - 4) and x. Its area (in cm^2) is:

(a) 12
(b) 24
(c) 40
(d) 60

Q62. Which of the following terms will replace the question mark (?) in the given series to make it logically complete?
GP32S, LU35X, QZ38C, VE41H, ?

(a) MJ42A
(b) AM44J
(c) AJ44M
(d) JA44M

Q63. When was the Prime Minister's Rozgar Yojana (PMRY) launched?

(a) 2000
(b) 1993
(c) 1990
(d) 1995

Q64. A certain number of people are sitting in a row, facing north. D sits fourth to the right of A. B sits third to the right of D. C sits fifth to the left of A. There are only two persons between B and E. If no other person is sitting in the row, what is the total number of persons seated?

(a) 9
(b) 14
(c) 16
(d) 11

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Q65. Consider the below statements and identify the correct answer.

Statement I: Most carbon compounds are good conductors of electricity.

Statement II: The force of attraction between the molecules of carbon compounds is not very strong.

(a) Statement II is correct, and Statement I is incorrect.
(b) Statement I is correct, and Statement II is incorrect.
(c) Both the statements are incorrect.
(d) Both the statements are correct.

Q66. The movement of food in the alimentary canal is brought about by the smooth muscles in the body. Which of the following options has all the organs having smooth muscles?

(a) Blood vessels, ureters, bones
(b) Heart, iris of the eye, bones
(c) Iris of the eye, bronchi of lungs, ureters
(d) Bones, ureters, bronchi of lungs

Q67. In ΔABC, BD perpendicular to AC at D and angle DBC = 44°. E is a point on BC such that angle CAE = 34°. What is the measure of angle AEB?

(a) 78°
(b) 46°
(c) 56°
(d) 80°

Q68. What is the value of (2x + 3y), if mean of the following distribution is 54?

Class	0-20	20-40	40-60	60-80	80-100	Total
Frequency	7	11	x	9	y	50

(a) 69
(b) 59
(c) 57
(d) 56

Q69. Which of the following quadratic equations has one of its roots as $4 - 2\sqrt{5}$?

(a) $x^2 - 8x + 4 = 0$
(b) $x^2 - 4x - 8 = 0$
(c) $x^2 - 4x + 4 = 0$
(d) $x^2 - 8x - 4 = 0$

Q70. Three resistors of 10 Ω, 15 Ω and 30 Ω are connected in parallel. The resistance of the combination is:

(a) 5 Ω
(b) 6 Ω
(c) 55 Ω
(d) 7.5 Ω

Q71. Express 0.794 + 0.876 in the form p/q, where p and q are integers and q ≠ 0.

(a) 1 133/198
(b) 1 37/55
(c) 1 676/990
(d) 1 15/22

Q72. Find the greatest number by which when the numbers 158 and 215 are divided, it leaves remainders 4 and 5, respectively.

(a) 14
(b) 7
(c) 18

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(d) 21

Q73. In a straight row of students facing north, the position of P is 32nd from the left side of the row and 47th from the right side of the row. Find the total number of students in the row.

(a) 79
(b) 77
(c) 78
(d) 80

Q74. Which element is NOT more reactive than copper?

(a) Ag
(b) Pb
(c) Fe
(d) Zn

Q75. Find the area (in square units) of a triangle with vertices (3, 4), (5, 7) and (-3, 6).

(a) 11
(b) 1
(c) 5
(d) 2

Q76. Study the given arrangement carefully and answer the question that follows.

(Left) 8 @ ! 3 ^ 3 f & 6 @ 4 @ & 8 ¥ 2 4 % ! £ % 7 (Right)

How many such symbols are there in the above arrangement each of which is immediately followed by an odd number and immediately preceded by a symbol?

(a) None
(b) 3
(c) 2
(d) 1

Q77. In Mendel's experiment, when F1 generation plants were self-pollinated, what was the genotypic ratio?

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

Q78. Refer to the following series and answer the question (all numbers are single digit numbers only):

3 7 5 2 8 6 4 1 3 7 4 3 7 6 8 2 6 5 8 9 7 8 6 1 2 7 3

How many such odd digits are there, each of which is immediately preceded by a perfect square and immediately followed by an odd digit? (NOTE: 1 is also a perfect square)

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

Q79. Select the option that is related to the fifth number in the same way as the second number is related to the first number and the fourth number is related to the third number.

5 : 30 :: 6 : 42 :: 7 : ?

(a) 50
(b) 58
(c) 56
(d) 60

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Q80. In June 2022, who has become India's first weightlifter to win a gold medal at the IWF Youth World Championships in Leon, Mexico?

(a) Muna Nayak
(b) Gurunaidu Sanapathi
(c) T Madhavan
(d) Vijay Prajapati

GENERAL AWARENESS AND CURRENT AFFAIRS

Q81. The angle between thumb and middle finger in Fleming's left-hand rule is:

(a) 90°
(b) 45°
(c) 120°
(d) 180°

Q82. A can do a piece of work in 15 days and B can do the same work in 20 days. The time taken by them working together to do the same work is:

(a) 9 ^4/7 days
(b) 7 ^4/7 days
(c) 8 ^4/7 days
(d) 10 ^4/7 days

Q83. The sum of two numbers is 35 and their LCM is 306. The two numbers are:

(a) 13, 22
(b) 17, 18
(c) 14, 21
(d) 16, 19

Q84. Which of the following Vedas is a 'Book of rituals'?

(a) The Yajurveda
(b) The Atharvaveda
(c) The Samaveda
(d) The Rigveda

Q85. What is the main difference observed between a slide of human cheek cells and a slide of onion peel when viewed under a compound microscope?

(a) Presence of cell wall in human cheek cells
(b) Presence of plastids in cheek cells
(c) Presence of mitochondria in onion peel cells
(d) Presence of cell wall in onion peel cells

Q86. Which of the following options is the closest approximate value which will come in place of question mark(?) in the following equation?

$4.98 \times 2 + 1.96 \times 4 - 8 \div 2 + 1 = ?$

(a) 20
(b) 12
(c) 18
(d) 15

Q87. The Tropical Deciduous Forests in India receives rainfall between _____.

(a) 40 to 60 cm
(b) 25 to 50 cm
(c) 70 to 200 cm
(d) Below 25 cm

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Q88. If the simple interest on Rs. 4,800 at 15% per annum for 'n' years is Rs. 2,160, then find the value of 'n'.

(a) 6
(b) 4
(c) 3
(d) 5

Q89. If $x = (\sec\theta - \cos\theta)(\cot\theta + \tan\theta)$ and $y = \sec\theta(\sec\theta + \tan\theta)(1 - \sin\theta)$, $0° < \theta < 90°$, then xy is equal to:

(a) $\tan\theta \sec\theta$
(b) $\cot\theta$
(c) $\text{cosec}\,\theta \cot\theta$
(d) $\sin\theta$

Q90. The Minimum Needs Programme was introduced in India in the _____ year of the Fifth Five-Year Plan.

(a) fourth
(b) first
(c) third
(d) second

Q91. Which of the following options is the closest approximate value which will come in place of question mark (?) in the following equation?

$14.999 \times 4.999 \div 17.988 + 2.998 \div 24.999 - 4.998 - 8.997 = ?$

(a) 72
(b) 70
(c) 87
(d) 77

Q92. Select the option that is related to the fifth letter-cluster in the same way as the second letter-cluster is related to the first letter-cluster and the fourth letter-cluster is related to the third letter-cluster.

BFHN : HBDI :: DHFM : JDBH :: FSWL : ?

(a) KPSH
(b) LOSG
(c) KOTF
(d) LPSF

Q93. What is the formula of cyclohexane?

(a) C_6H_{12}
(b) C_6H_{14}
(c) C_6H_6
(d) C_6H_{10}

Q94. As of July 2022, a life insurance cover of _____ under the Pradhan Mantri Jan Dhan Yojana, gives life insurance cover on death of the life assured, due to any reason, to the deceased's family.

(a) Rs. 75,000
(b) Rs. 50,000
(c) Rs. 30,000
(d) Rs. 40,000

Q95. Study the given pie-chart and answer the question that follows.

The pie-chart presents the total share of different insurance products offered by an insurance company.

If the total insurance sold by the company in a given year was 36000, then how many fire and property insurances were sold in that year?

(a) 5760
(b) 2160
(c) 2880
(d) 720

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Q96. In a mixture of 80 litres, the ratio of milk to water is 3: 1. If this ratio is to be 2: 3, then the quantity of water to be further added is:

(a) 30 litres
(b) 50 litres
(c) 70 litres
(d) 20 litres

Q97. Which of the following activities is environmentally friendly?

(a) Using polythene bags for shopping
(b) Using ACs and coolers during the summer
(c) Using solar-power for generation of electricity
(d) Construction of skyscrapers

Q98. When 6 Ω, 9 Ω and 6 Ω resistors are connected in parallel combination then the resultant resistance will be:

(a) 2.50 Ω
(b) 2.25 Ω
(c) 2.40 Ω
(d) 2.75 Ω

Q99. Which of the following statements is INCORRECT regarding the surgical methods of birth control?

(a) They are also called sterilisation procedures
(b) In males vas deferens and in females fallopian tube is blocked
(c) They block gamete transport and prevent fertilisation
(d) They are not very effective methods

Q100. Which of the following is NOT a use of plaster of Paris?

(i) Manufacture of glass, soap and paper
(ii) used in plaster for supporting fractured bones.
(iii) making toys, materials for decoration and for making surfaces smooth.
(iv) Used in chemistry laboratories for sealing air gaps in apparatus where air tight arrangement is required.

(a) only ii
(b) only iii
(c) ii and iii
(d) only i

ANSWER KEY

1	b	2	c	3	c	4	a	5	d	6	c	7	a	8	d	9	b	10	d
11	d	12	b	13	a	14	d	15	b	16	b	17	b	18	b	19	a	20	d
21	b	22	c	23	b	24	b	25	d	26	c	27	a	28	a	29	a	30	a
31	a	32	a	33	a	34	d	35	d	36	a	37	c	38	c	39	c	40	b
41	c	42	d	43	b	44	c	45	b	46	a	47	b	48	c	49	d	50	d
51	a	52	a	53	a	54	a	55	d	56	d	57	d	58	d	59	b	60	d
61	b	62	c	63	b	64	c	65	a	66	c	67	d	68	b	69	d	70	a
71	a	72	a	73	c	74	a	75	a	76	c	77	b	78	b	79	c	80	b
81	a	82	c	83	b	84	a	85	d	86	d	87	c	88	c	89	a	90	b
91	d	92	b	93	a	94	c	95	c	96	c	97	c	98	b	99	d	100	d

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