RRB ALP CBT I 9 Aug 2018 Shift 1 Official Paper (Previous Year Paper)

RRB Assistant Loco Pilot (ALP) • 2018 • 75 questions • 60 minutes • Answer key

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Practise under exam conditions, then review your answers after you submit.

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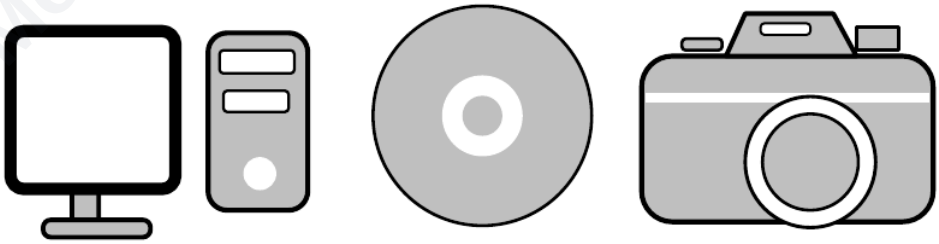
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STAGE I (CBT I)

Q1. A convex mirror of focal length F (in air) is immersed in a liquid. The focal length of the mirror in liquid (μ = 4/3) will be:

(a) (4/3) f
(b) (3/4) f
(c) (7/3) f
(d) F

Q2. Select the most appropriate term for the given set of items.



(a) Fine arts
(b) Pictures
(c) Culture
(d) Technology

Q3. Who is the MD and CEO of Allahabad Bank as of March 2018?

(a) Arundhati Bhattacharya
(b) Chitra Ramakrishna
(c) Shikha Sharma
(d) Usha AnanthSubramanian

Q4. If 9 × 6 = 45, 7 × 4 = 33 and 6 × 4 = 20, then what is the value of 5 × 3?

(a) 13
(b) 16
(c) 24
(d) 10

Q5. Tapas, Avi and Rishi shared a cake. Tapas had 1/2 of it, Rishi had 1/3 of it and Avi had the rest. What was Avi's share of the cake?

(a) 3/5
(b) 2/6
(c) 3/6
(d) 1/6

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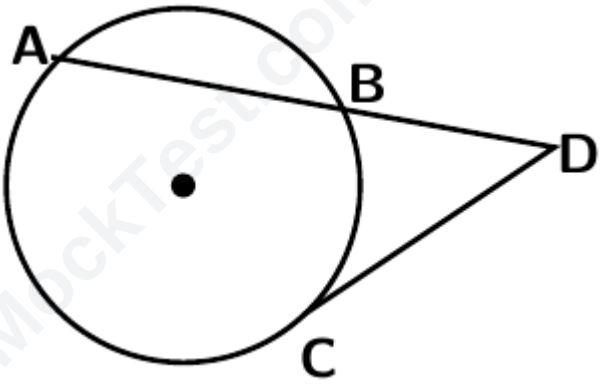
Q6. Negative acceleration occurs in the opposite direction of:

(a) Velocity
(b) Force
(c) Distance
(d) Momentum

Q7. Which of the following numbers will have an irrational square root?

(a) 2048
(b) 2401
(c) 1024
(d) 4096

Q8. In the circle below, chord AB is extended to meet the tangent DC at D. If AB = 12 cm and DC = 8 cm, find the length of BD.



(a) 4√6 cm
(b) 6 cm
(c) 4 cm
(d) 5 cm

Q9. In which of the few process highly reactive metals are obtained from pure molten ore?

(a) Calcination
(b) Electrolysis
(c) Roasting
(d) Reduction by an appropriate reducing agent

Q10. A ladder 13 m long reaches a window which is 12 m above the ground on side of a street. Keeping its foot at the same point, the ladder is turned to the other side of the street to reach a window 5 m high, then the width of the street is:

(a) 17 m
(b) 16 m
(c) 14 m
(d) 15 m

Q11. Which of the following is a Saprotroph?

(a) Pigeon
(b) Mushroom
(c) Algae
(d) Man

Q12. An increase in price of which of these products will have a ripple effect in increasing the prices of many products, thereby resulting in inflation?

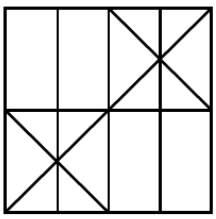
(a) Automobiles
(b) Petroleum

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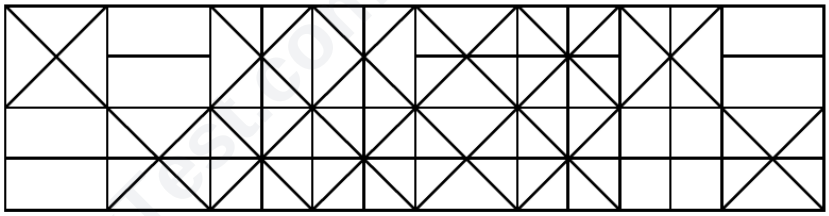
(c) Smartphones
(d) Medicines

Q13. From the option given, select the rotated version of the following image.

Image



Option



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

Q14. Consider the given statement true and decide which of the conclusions logically follow(s) from the information given in the statement.

Statement:

The population in metro cities in increasing tremendously which leads to the shortage of living space and a drop-in living conditions of the people.

Conclusion:

1.Government should re-plan city development

2.Government should demolish illegal buildings and build cottages for people.

(a) Neither conclusion 1 nor 2 follows.
(b) Only conclusion 2 follows.
(c) Both conclusions 1 and 2 follow.
(d) Only conclusion 1 follows.

Q15. Which of the following is the last element in the Newlands Law of Octaves classification?

(a) Radium
(b) Thorium
(c) Iron
(d) Rhodium

Q16. If the difference between the mode and median is 2, then find the difference between the median and mean(in the given order).

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

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Q17. When a number of resistors are connected in series in a circuit, the value of current _____ across each resistor.

(a) Becomes half
(b) Remains the same
(c) Increases
(d) Decreases

Q18. In the morning X and Y are walking towards each other in a park. When they meet each other, Y's shadow falls straight in front of X. In which direction was X facing?

(a) West
(b) North
(c) East
(d) South

Q19. Name the metal that can be easily cut with a knife:

(a) Copper
(b) Sodium
(c) Gold
(d) Aluminium

Q20. Which gas is released when water is added to bleaching powder?

(a) Carbon dioxide
(b) Oxygen
(c) Chlorine
(d) Hydrogen

Q21. Which of the following is not a triangular number?

(a) 15
(b) 3
(c) 10
(d) 5

Q22. Consider the given statements true and decide which of the given conclusions can definitely be drawn from the given statements.

Statements:

Some fruits are vegetables.

Some vegetables are not edible.

Conclusions:

1. Some fruits are not edible.
2. Some vegetables are fruits.

(a) Conclusion 2 is correct.
(b) Conclusion 1 is correct.
(c) Both inclusions 1 and 2 are correct.
(d) Neither conclusion 1 nor 2 is correct.

Q23. Consider the given question and decide which of the following statement(s) is/are sufficient to answer the question.

Is (X – 5) even? X is a real number.

Statement:

1. X – 15 belongs to integer
2. X – 10 is an odd integer

(a) Both statements 1 and 2 are sufficient
(b) Statement 2 alone is sufficient while statement 1 alone is insufficient
(c) Neither statement 1 nor 2 is sufficient
(d) Statement 1 alone is sufficient while statement 2 alone is insufficient

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Q24. A 4.0 kg object is moving horizontally with a speed of 5.0 m/s. To increase its speed to 10 m/s, the amount of work required to be done on this object is:

(a) 150 J
(b) 50 J
(c) 75 J
(d) 100 J

Q25. Who is the author of the speculative fiction book ‘Half of What I say’?

(a) Namita Gokhale
(b) Shashi Tharoor
(c) Anil Menon
(d) K.R. Meera

Q26. Consider the given questions and decide which of the following statements is sufficient to answer the question.

How much was the sale of the company ABC?

Statements:

1. The company ABC sold 75000 units of soaps each at Rs. 70/-
2. ABC has no other products in the production line.

(a) I alone is sufficient while 2 alone is not sufficient to answer the question.
(b) Both 1 and 2 are sufficient to answer the questions.
(c) Neither 1 nor 2 is sufficient to answer the question.
(d) 2 alone is sufficient while 1 alone is not sufficient to answer the question.

Q27. Who is the Chairman of the Economic Advisory Council to the Prime Minister (PMEAC) as of February 2018?

(a) Amit Mitra
(b) Amartya Sen
(c) Bibek Debroy
(d) Najma Heptulla

Q28. A train takes 10 seconds to cross a bridge of length 100 m travelling at 90 kmph. Find the length of the train in metres.

(a) 140
(b) 150
(c) 130
(d) 120

Q29. The SI unit of resistance is _____.

(a) Joule
(b) Coulomb
(c) Ohm
(d) Newton

Q30. Consider the given statement and decide which of the given assumptions is/are implicit in the statement.

Statement:

Honesty is the best policy.

Assumptions:

I)Honest people are policy makers.

II)Each policy must contain honesty.

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

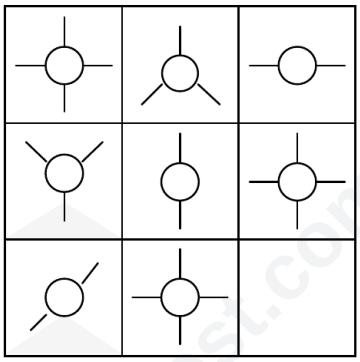
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Q31. Who is the newly appointed Governor of Tamil Nadu as of February 2018?

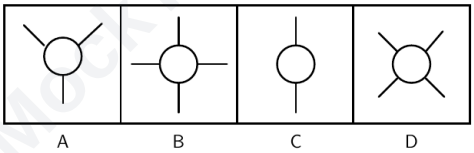
(a) Satyapal Malik
(b) Subramanian Swamy
(c) Banwarilal Purohit
(d) K Rosaiah

Q32. Select the Answer Figure that fits in the blank space in the given Problem Figure.

Problem Figure



Answer Figures

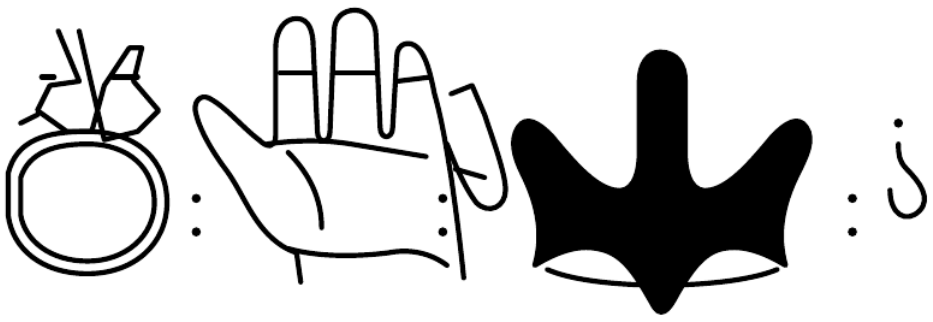


(a) B
(b) D
(c) A
(d) C

Q33. The reflector of a searchlight is a:

(a) Plane mirror
(b) Concave mirror
(c) Cylindrical mirror
(d) Convex mirror

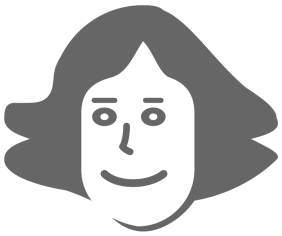
Q34. Select the option that is related to the third figure in the same way as the second figure is related to the first figure.



(a)



(b)



(c)



(d)



Q35. Plants that do not have a differentiated plant body belong to the group _____.

(a) Pteridophyte
(b) Phanerogams
(c) Thallophyte
(d) Bryophyta

Q36. The interest earned on Rs. 1,600 at the rate of 5% simple interest per annum for 6 years would be:

(a) Rs. 469
(b) Rs. 2,080
(c) Rs. 480
(d) Rs. 450

Q37. Select the related word pair from the following options.

Goose : Geese :: _____

(a) Socks : Sock
(b) Shirts : Shirt
(c) Jackets : Jacket
(d) Plant : Plants

Q38. Which of the following is true?

(a) 29/6 > 43/12
(b) 29/6 = 43/12
(c) 29 < 43/12
(d) 29/6 = 53/12

Q39. In the following series, one term is missing as shown by the questions mark (?). select the missing term from given options.

ST, TU, UV, VW, ?

(a) WY

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(b) WX
(c) WZ
(d) WV

Q40. Nodes of Ranvier are microscopic gaps found within:
(a) Myelinated axons
(b) Gland cells
(c) Osteoblasts
(d) Chondroblasts

Q41. Consider the given statement and decide which of the given assumptions is/are implicit in the statement.
Statement:
Teachers must attend workshop.
Assumptions:
Workshop updates teachers.
Workshops kill time.
(a) Only assumption (I) is implicit
(b) Both assumptions (I) and (II) are implicit.
(c) Only assumption (II) is implicit.
(d) Neither assumption (I) nor (II) is implicit.

Q42. Select the option that depicts the correct mirror image of the given word when the mirror is placed horizontally below the word.

HEALTHY

(a)

YHTLASH

(b)

YHTLAEH

(c)

HEALTHY

(d)



Q43. Pir Panjal Railway Tunnel is located in _____.
(a) Jammu and Kashmir
(b) Himachal Pradesh
(c) Uttarakhand

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(d) Sikkim

Q44. Consider the given question and decide which of the following statements is sufficient to answer the question.

Is Raju fond of travelling?

Statements:

1. Raju has seen the Eastern, the Western, the Northern and the Southern parts of India.
2. Raju likes to be in the company of his friends.

(a) Both statements taken together are sufficient to answer the question, but neither statement alone is sufficient.
(b) Statement 2 alone is sufficient but statement 1 alone is not sufficient to answer the question.
(c) Statement 1 and 2 together are not sufficient, and additional data is needed, to answer the question.
(d) Statement 1 alone is sufficient but statement 2 alone is not sufficient to answer the question.

Q45. The number of neutrons in an atom is equal to the:

(a) Mass number - atomic number
(b) Atomic number
(c) Number of electrons
(d) Mass number

Q46. Seven years from now Virat will be twice as old as Mohinder. Five years ago, Mohinder's age was one year less than 2/5 of Virat's age. What is Virat's present age?

(a) 53 years
(b) 57 years
(c) 51 years
(d) 55 years

Q47. A swimming pool is filled in 10 hours by three tankers A, B and C. The tanker C is Twice as fast as B and B is twice as fast as A. How much time will tanker A alone take to fill the swimming pool?

(a) 10 hours
(b) 80 hours
(c) 40 hours
(d) 70 hours

Q48. The number of symbols that are preceded by a number in the given expression is _____.

R + J M 2 $ # Q R ? * O @ 7 F 3

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

Q49. Consider the given argument and decide which of the given assumptions is/are implicit in the argument.

Argument:

The campaign 'Swachh Bharat', to keep one's cities clean, started by the apartment association, didn't bring much of a response from its residents.

Assumptions:

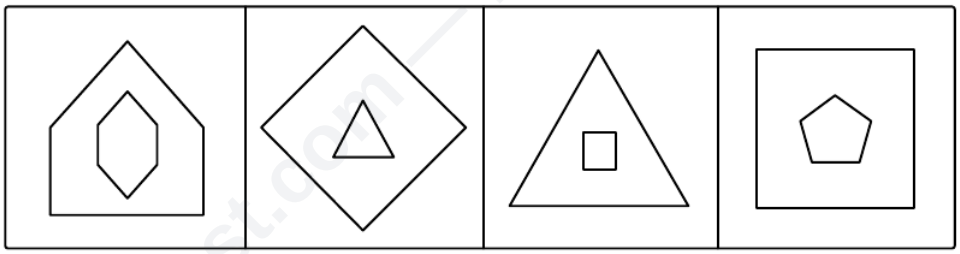
1. The residents do not wish to keep their apartment clean.
2. The association head failed in the campaign.

(a) Only assumption 2 is implicit.
(b) Neither 1 nor 2 is implicit.
(c) Only assumption 1 is implicit.
(d) Both 1 and 2 are implicit.

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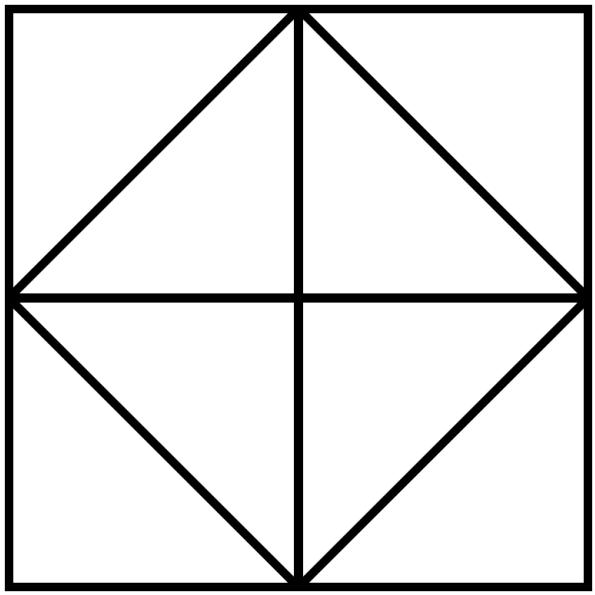
Q50. Select the figure that does NOT belong in the following group.

A B C D



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

Q51. How many triangles are present in the following figure?



(a) 11
(b) 13
(c) 10
(d) 12

Q52. Which of the numbers given below is the square root of 15376?

(a) 128
(b) 134
(c) 122
(d) 124

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Q53. Umar and Avinash started a partnership with investments of Rs. 10,000 and Rs. 15,000, respectively but due to a financial emergency, Avinash had to withdraw his investment after 8 months. In what ratio should the profit of the first twelve months be shared among the duo?

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

Q54. The volume of a right circular cone, whose radius of the base is same as one-third of its altitude, and the volume of a sphere are equal. The ratio of the radius of the cone to the radius of the sphere is:

(a) cbrt(3) : cbrt2
(b) 1 : 1
(c) cbrt(4) : 1
(d) cbrt4 : cbrt3

Q55. Type 1 workers can do three times the work of Type 2 workers. Twelve type 1 workers can complete a task in 10 days. How many days would it have taken 4 Type 1 and 8 Type 2 workers to complete the same task?

(a) 20 days
(b) 18 days
(c) 16 days
(d) 17 days

Q56. Asexual reproduction differs from sexual reproduction in that in asexual reproduction _____.

(a) The nuclei of gametes fuse
(b) The gametes are produced in reproduction
(c) The offspring shows variations
(d) The new organisms are genetically identical to the parent

Q57. How many atoms are present in a (NH4)2SO4 molecule?

(a) 15
(b) 14
(c) 12
(d) 13

Q58. The ratio of the numbers of blue to red balls in a bag is constant. When there were 44 red balls, the numbers of blue was 36. If the number of blue balls is 54. How many red balls will be in the bag?

(a) 64
(b) 66
(c) 62
(d) 68

Q59. By which legislation were India and Pakistan divide into two independent nations?

(a) Indian Independence Act 1947
(b) Pakistan Independence Act 1947
(c) Indian Partition Act 1947
(d) Pakistan Partition Act 1947

Q60. Looking at the portrait of a girl, Sheesha, a girl said, “Her mother is my maternal grandfather’s only daughter who has only one daughter and no sons”. How is Sheesha related to the girls in the portrait?

(a) Niece
(b) Sister
(c) Aunt
(d) Sheesha herself

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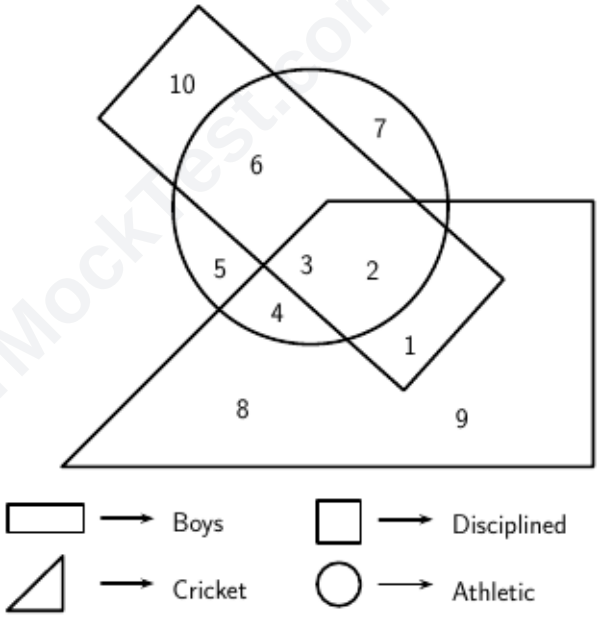
Q61. Who is the curren President of the Indian Olympic Association?

(a) Sharad Panwar
(b) Adille Sumariwalla
(c) Abhinav Bindra
(d) Prannoy Roy

Q62. Momentum is measured as the product of:

(a) Mass and acceleration
(b) Mass and inertia
(c) Mass and velocity
(d) Mass and force

Q63. According to the given Venn diagram, which number represents 'Boys who participate in athletics and also play cricket'?



(a) 2
(b) 3
(c) 1
(d) 11

Q64. In Mendeleev's periodic table, the properties of the elements are considered a periodic function of their:

(a) Atomic number
(b) Atomic mass
(c) Ionization enthalpy
(d) Atomic size

Q65. Consider the given question and decide which of the following statements is/are sufficient to answer the question.

Between X and Y who is the better dancer?

Statements:

1. X had given more dance auditions.
2. Y had given more dance performances than X.

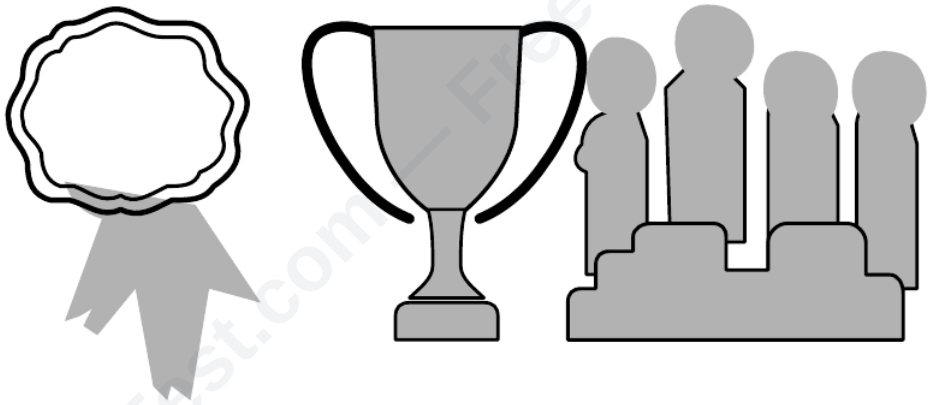
(a) Neither statement 1 nor 2 is sufficient
(b) Statement 2 alone is sufficient while statement 1 alone is insufficient
(c) Statement 1 alone is sufficient while statement 2 alone is insufficient
(d) Both statement 1 and 2 are sufficient

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Q66. Which of the following acids is present in Red Ants?

(a) Malic acid
(b) Oxalic acid
(c) Formic acid
(d) Tannic acid

Q67. Select the most appropriate term for the following set of items.



(a) Celebration
(b) Meeting
(c) Marriage
(d) Books

Q68. Find a two digit number which is exactly three times the product of its digits.

(a) 36
(b) 12
(c) 48
(d) 24

Q69. . Who is the author of the book 'The association of small Bombs', which is currently shortlisted for the International Dublin Literary Award?

(a) Namitha Ghokhale
(b) Arundhathi Roy
(c) Chetan Bhagat
(d) Karan Mahajan

Q70. As of February 2018, who owns the Kolkata-based IPL term 'Kolkata Knight Riders'?

(a) Sourav Ganguly
(b) Aamir khan
(c) Shah rukh khan
(d) Subrata Roy

Q71. Three years from now Dhahiri's age will be eight years less than twice Eunice's age. The sum of their present ages is 61 years. What is Dhahiri's present age?

(a) 39 years
(b) 41 years
(c) 43 years
(d) 36 years

Q72. ABC$+#DEF&=?GHI!2*@

Find the missing term using the above sequence:

ABC : @*2 ? $#E : _____.

(a) !H?

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(b) ?H!
(c) !HG
(d) HH!

Q73. 1 kWh = _____.
(a) 3.6 × 10^6 J
(b) 3.6 × 10^5 J
(c) 3.6 × 10^(-5) J
(d) 3.6 × 10^(-6) J

Q74. In a class, there were 9 boys and some girls. In a test the mean score obtained by the boys was 12 while that obtained by the girls was 14. If the overall average was 13.1, what was the total number of students in the class?
(a) 22
(b) 19
(c) 20
(d) 21

Q75. At 9.5% simple interest per annum, a sum of money became Rs. 942 in 6 years. The sum invested initially was:
(a) Rs. 626
(b) Rs. 600
(c) Rs. 675
(d) Rs. 650

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										

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