RRB ALP CBT I 9 Aug 2018 Shift 2 Official Paper (Previous Year Paper)

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

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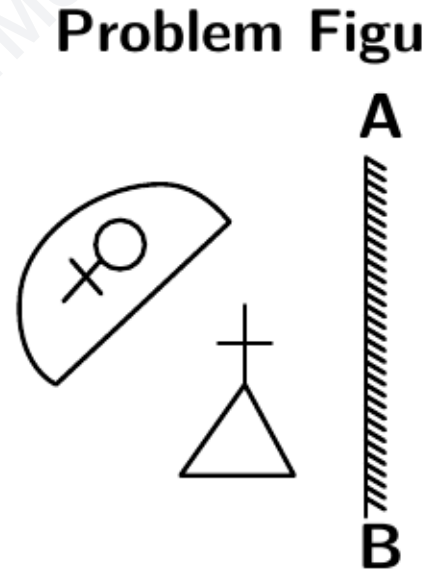
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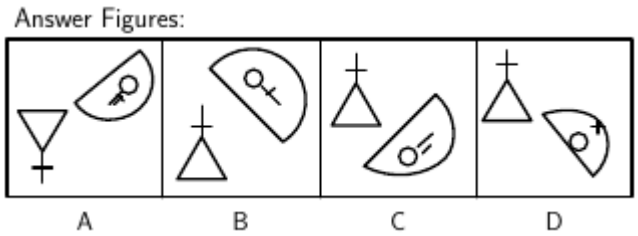
STAGE I (CBT I)

Q1. Which of the fractions given below, when added to 5/8, give 1?

(a) 6/24
(b) 5/2
(c) 6/16
(d) 6/3

Q2. Choose the correct mirror image of the Problem figure if the mirror if placed to the right of the figure.





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

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Q3. Elements A, B and C occur as Dobereiner's triads. If the atomic mass of A is 40 and that of C is 137, what will be the atomic mass of B?

(a) 35
(b) 120
(c) 88
(d) 74

Q4. There are 361 saplings of Mango and Neem in a garden. The ratio of the number of Mango saplings to that of Neem saplings is 8 : 11. How many Neem saplings are there in the garden?

(a) 209
(b) 152
(c) 171
(d) 57

Q5. A sum of money was invested at the rate of 7.5% simple interest per annuum for 4 years. If the investments were for 5 years, the interest earned would have been Rs. 375 more. What was the initial sum invested?

(a) Rs. 4,500
(b) Rs. 5,000
(c) Rs. 3,750
(d) Rs. 4,750

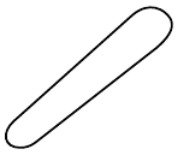
Q6. A body of 4.0 kg is lying at rest. Under the action of a constant force, it gains a speed of 5 m/s. The work done by the force will be _____.

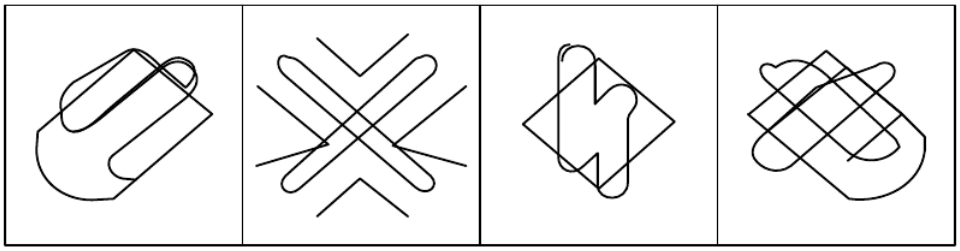
(a) 40J
(b) 50J
(c) 30J
(d) 60J

Q7. Two pipes, when working one at a time, can fill a cistern in 3 hours and 4 hours, respectively while a third pipe can drain the cistern empty in 8 hours. All the three pipes were opened together when the cistern was 1/12 full. How long did it take for the cistern to be completely full?

(a) 2 hours
(b) 1 hour 45 minutes
(c) 2 hour 11 minutes
(d) 2 hour 10 minutes

Q8. The below figure is embedded in one of the answer figures. Choose the correct figure containing the below figure.





A B C D

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

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Q9. Odisha often faces natural disasters due to _____.

(a) Earthquakes
(b) Cyclones
(c) Rainfall
(d) Drizzle

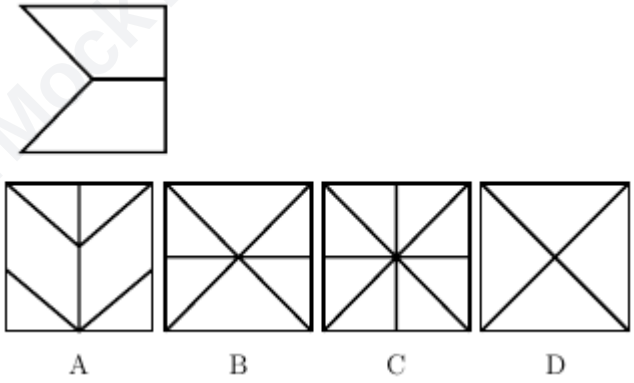
Q10. Who among the following laid the foundation of chemical science by establishing two important laws of chemical combination?

(a) Ernest Rutherford
(b) Democritus
(c) Joseph L. Proust
(d) Antoine L. Lavoisier

Q11. If $3x^2 + ax + 4$ is perfectly divisible by $x - 5$, then the value of a is:

(a) -12
(b) -5
(c) -15.8
(d) -15.6

Q12. The following figure is embedded in one of the four Answer figures. Which figure contains the Problem figure?



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

Q13. Solve the following: $-1/4 \times \{-45 - (-96) \div (-32)\} = ?$

(a) 12
(b) 10.5
(c) -12
(d) -10.5

Q14. If you look into a mirror and find that the image (your reflexion) is smaller than you, then the type of the mirror is:

(a) Plano-concave mirror
(b) Concave mirror
(c) Plane mirror
(d) Convex mirror

Q15. In a computer game, a builder can build a wall in ten hours while a destroyer can demolish such a wall completely in fourteen hours. Both the builder and the destroyer were initially set to work together on the ground level, but, after 7 hours, the destroyer was taken out. What was the total time (in hours) taken to build the wall?

(a) 15
(b) 17
(c) 24
(d) 35

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Q16. To draw a pair of tangents to a circle which are inclined to each other at an angle of 75°, it is required to draw tangents at the end points of those two radii of the circle, the angle between whom is

(a) 65°
(b) 75°
(c) 95°
(d) 105°

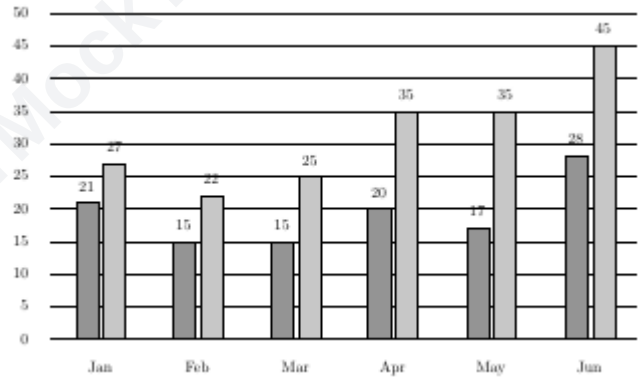
Q17. If $\cot^{\wedge}4\theta + \cot^2\theta = 3$, then $\text{cosec}^{\wedge}4\theta - \text{cosec}^2\theta = ?$

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

Q18. 'Madhya Pradesh' is related to 'Diamond' in the same way as 'Karnataka' is related to _____.

(a) Silver
(b) Platinum
(c) Gold
(d) Copper

Q19. The given data shows the registration of bikes and total vehicles (in thousands) for 6 months in 2017 in City X.



Note: In the chart, the first number represents bikes and the second number represents total vehicles.

Based on the given data, the increase in the registration of vehicles other than bikes in April 2017 in comparison of Jan 2017 is _____.

(a) 8000
(b) 8050
(c) 9500
(d) 9000

Q20. If $a + b + c = 0$, then $(a^3 + b^3 + c^3)^2 = ?$

(a) $3a^2b^2c^2$
(b) $9a^2b^2c^2$
(c) 9abc
(d) 27abc

Q21. Consider the argument and decide which of the given assumptions is/re implicit.

Argument:

Public smoking is an offence under the law.

Assumption:

1. Smoking is injurious to the health of the person who smoke.
2. Smoke is injurious even to others health in the public places.

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

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(d) Only assumption 1 is implicit

Q22. Choose the correct alternative which will complete the series.

ACT, EGG, INK, _____

(a) BYE
(b) OLD
(c) FUN
(d) DIP

Q23. Which state government has made yoga guru Ramdev Baba as the brand ambassador of Yoga and Ayurveda?

(a) Haryana
(b) Uttar Pradesh
(c) Himachal Pradesh
(d) Rajasthan

Q24. Consider the given statements as true and decide which of the given conclusions can definitely be drawn from the given statements.

Statements:

People think that paying tax to government is a burden and waste. Hence, they avoid paying tax or don't pay tax promptly.

Conclusions:

1. Government should create awareness among the people that paying tax helps to build nation.
2. Tax should be increased so that more money is collected.

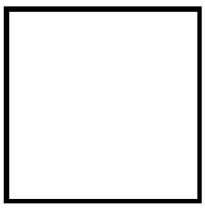
(a) Both 1 and 2 follow.
(b) Only conclusion 1 follows.
(c) Neither 1 nor 2 follows.
(d) Only conclusion 2 follows.

Q25. The main cause of rancidity in foods is the _____ of fats and oils.

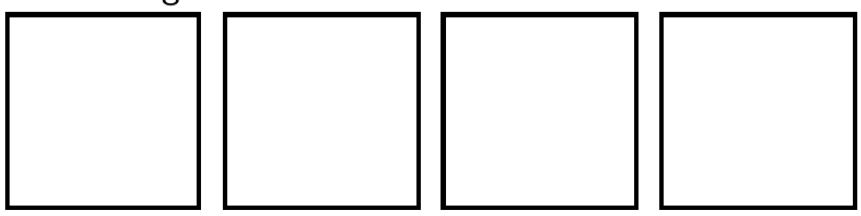
(a) Hydrolysis
(b) Oxidation
(c) Clarification
(d) Reduction

Q26. Which of the answer figures is the correct water image for the given problem figure?

Problem Figure



Answer Figures



(a) C
(b) A

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(c) B
(d) D

Q27. Mr. X starts from point ‘A’ travels 80 km towards west, takes a left turn, travels 50 km and reaches point ‘B’. What is the shortest distance between points ‘A’ and ‘B’?
(a) 10√93
(b) 10√39
(c) 10√98
(d) 10√89

Q28. The mean height of 25 boys in a class is 150 cm, and the mean height of 35 girls in the same class is 145 cm. The combined mean height of 60 students in the class is _____ cm (approximately).
(a) 143
(b) 145
(c) 146
(d) 147

Q29. Which of the following serves as a nutritive tissue for the growing embryo?
(a) Ovule
(b) Ovary
(c) Endosperm
(d) Zygote

Q30. Choose the correct analogous word pair from the given alternatives.
Carpenter: Hammer
(a) Crane: Builder
(b) Computer: Writer
(c) Plumber: Wrench
(d) Axe: Logger

Q31. The 2016 Olympics was held in which city?
(a) Paris
(b) Mexico city
(c) Rio de Janeiro
(d) London

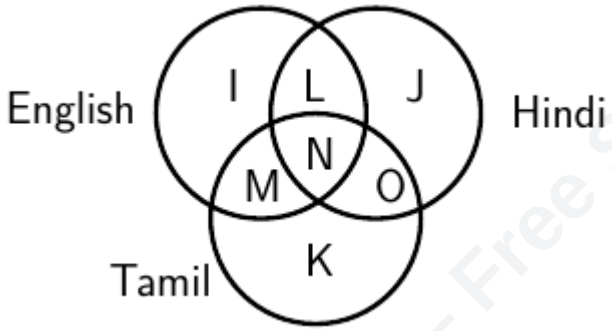
Q32. Find the value of 27 – [38 – {46 – (15 – 13 – 2)}]
(a) 35
(b) 31
(c) 29
(d) 30

Q33. The ‘Kathopanishad’ captures the conversation between a young boy named Nachiketa and a god. Which of the following gods is talking to Nachiketas?
(a) Lord Yama
(b) Lord Shiva
(c) Lord Indra
(d) Lord Kartikeya

Q34. The focal length of a concave mirror with a radius of curvature of 20.0 cm is:
(a) 15 cm
(b) 20 cm
(c) 5 cm
(d) 10 cm

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Q35. The given Venn diagram represents the students who can speak different languages. According to it, the total number of students who can speak exactly two languages is _____.



(a) L + M + O
(b) N + L
(c) L + O
(d) L + M + O + N

Q36. A battlefield always has:

(a) Arrows
(b) Elephants
(c) Chariots
(d) Soldiers

Q37. The surface area of three faces of a cuboid sharing a vertex are 20 m^2, 32 m^2 and 40 m^2. What is the volume of the cuboid?

(a) 92 m^3
(b) $\sqrt{3024}$ m^3
(c) 160 m^3
(d) 184 m^3

Q38. An object with a mass of 22 kg moving with a velocity of 5 m/s possesses kinetic energy of:

(a) 275 J
(b) 110 J
(c) 1100 J
(d) 2750 J

Q39. Which of the following is a reducible fraction?

(a) 91/15
(b) 79/26
(c) 105/112
(d) 41/17

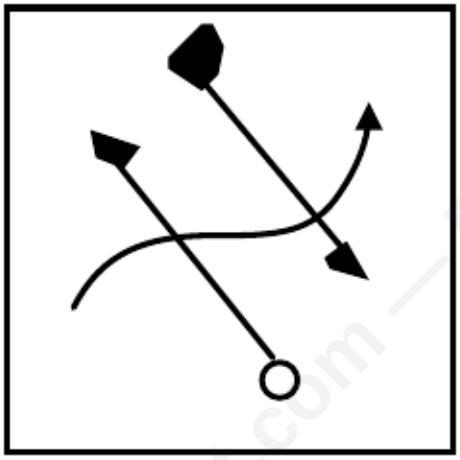
Q40. 2/3 of a milk-water mixture was milk. There was 21 litres of the mixture. If 4 litres of water is added to it, Then find the percentage of milk in the new mixture.

(a) 44
(b) 56
(c) 14
(d) 11

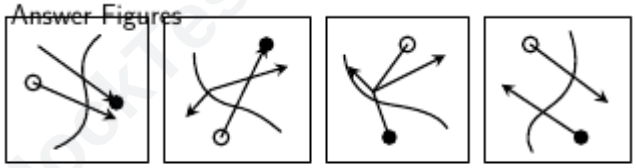
Q41. Choose the correct water image of the problem figure.

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Question Figure



Answer Figures



A B C D

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

Q42. The Dadasaheb Phalke Award is awarded for significant public achievement in which field?

(a) Films
(b) Journalism
(c) Literature
(d) Sports

Q43. The value of [-261 + (-380) – (-521) + 821 – (-121)] is:

(a) 800
(b) 825
(c) 822
(d) 833

Q44. The resistance of a conductor is inversely proportional to:

(a) Temperature
(b) Resistivity
(c) Area of cross section
(d) Length

Q45. Which of the following is essential for the synthesis of thyroxin?

(a) Potassium
(b) Sodium
(c) Calcium
(d) Iodine

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Q46. The girth of the stem or root in plants increases due to:

(a) Lateral meristem
(b) Intercalary meristem
(c) Additional meristem
(d) Apical meristem

Q47. Consider the given question and decode which of the following statements is sufficient to answer the question.

Who among P, Q, R, S and T is lightest in weight?

Statements:

1. Q weight < P and S also S weight > T
2. R weight > Q but < T

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

Q48. Which of the following metals is stored in kerosene oil?

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

Q49. The following table gives the details of the number of students in Class 10 section A and B who had taken the mid-term and final exams.

Result	Sec A	Sec B
Total number of students who failed in both exams	28	23
Total number of students who failed in mid-term but passed in finals	14	12
Total number of students who passed in mid-term but failed in finals	6	17
Total number of students who passed in both the exams	64	55

The percentage of students in section A is _____ (round of one decimal).

(a) 53
(b) 51.4
(c) 52.3
(d) 54.2

Q50. Which Indian Chief Minister's father was a 'Maharaja'?

(a) Chandrababu Naidu
(b) Devendra Fadnavis
(c) K Chandrasekhar Rao
(d) Amrinder Singh

Q51. Which eminent Hindi writer was chosen for the Vyas Samman 2017 for her work 'Dukham Sukham'?

(a) Namita Gokhale
(b) Meena Kandasamy
(c) Jhumpa Lahiri
(d) Mamta Kalia

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Q52. The two sides holding the right-angle in a right-angled triangle are 3 cm and 4 cm long. The area of its circumcircle will be:

(a) 5π cm²
(b) 7π cm²
(c) 6.75π cm²
(d) 6.25π cm²

Q53. Who won the 2017 Hridaynath Mangeshkar Award?

(a) Javed Akhtar
(b) Asha Bhosle
(c) Shabana Azami
(d) Anupam Kher

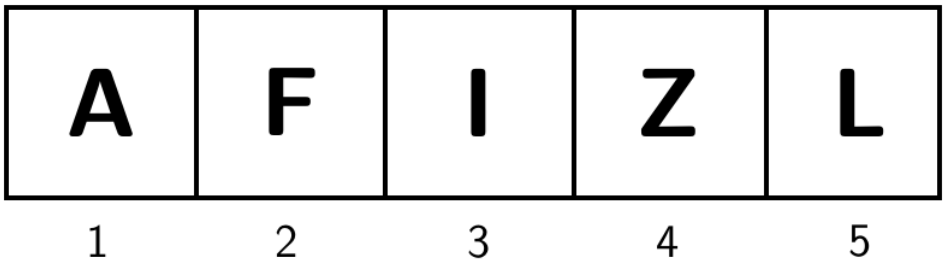
Q54. To convert temperature from Celsius to Kelvin scale you must:

(a) Multiply the given temperature by 273
(b) Add 273 to the given temperature
(c) Divide the given temperature by 273
(d) Subtract 273 from the given temperature

Q55. A body of mass 2 kg is thrown upward with an initial velocity of 20 m/s. After 2 seconds, its kinetic energy will be: (g = 10 m/s²)

(a) 100 J
(b) 0 J
(c) 400 J
(d) 200 J

Q56. Select the odd figure out of the following figure services.



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

Q57. If the number 1 on the clock is replaced by the letter ‘M’, the number 2 is replaced by ‘N’ and so on, then when the time is 21:00 the hour hand will be at _____ letter.

(a) S
(b) T
(c) U
(d) V

Q58. Find the missing term in the letter series.

BGL, DIN, _____, HMR

(a) FKP
(b) FPK
(c) EJO
(d) GLQ

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Q59. Sharan and Mayukh, working together, can complete a task in 18 days. However, Mayukh works alone and leaves after completing one-third of the task. Then, Sharan takes over and completes the remaining work by himself. As a result, the duo could complete the task in 40 days. How many days would Sharan alone have taken to do the job if Mayukh had worked faster than Sharan?

(a) 45
(b) 30
(c) 72
(d) 24

Q60. Decide which of the conclusions logically follow(s) from the information given in the statement.

Statements:

Politicians marry only beautiful girls. X is a beautiful girl.

Conclusions:

1. X will marry a politician.
2. X won't marry a politician.

(a) Only conclusion 1 follows
(b) Only conclusion 2 follows
(c) Either 1 or 2 follows
(d) Both 1 and 2 follows

Q61. Three-fifths of my current age is the same as five-sixths of that of one of my cousins'. My age ten years ago will be his age four years hence. My current age is _____ years.

(a) 55
(b) 45
(c) 60
(d) 50

Q62. 'Food' is related to 'Refrigerator' in the same way as 'Clothes' is related to _____.

(a) Garage
(b) Closet
(c) Fold
(d) Material

Q63. Which of the following never occurs singly in nature?

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

Q64. Which of the numbers given below is NOT rational?

(a) √64
(b) cbrt64
(c) cbrt8
(d) √8

Q65. Which of the following gases is not generated in a biogas plant?

(a) CO
(b) H2S
(c) CH4
(d) CO2

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Q66. Name the Indian Paralympics high jumper who won gold at the Rio Paralympics. He was awarded the Padma Shri in 2017.

(a) Narendra Ranbir
(b) Varun Bhati
(c) Mariyappan Thangavelu
(d) Devendra Jhajharia

Q67. Which was the first country to introduce GST in its system?

(a) Canada
(b) France
(c) Australia
(d) Germany

Q68. Chlorine gas is used in the manufacture of:

(a) Baking powder
(b) Baking soda
(c) Bleaching powder
(d) Washing powder

Q69. If the atomic number of Krypton is 36, then its electronic configuration is:

(a) 2, 18, 16
(b) 2, 8, 18, 8
(c) 2, 18, 8, 8
(d) 2, 8, 20, 6

Q70. Consider the argument and decide which of the given assumptions is/are implicit

Argument:

The BEST bus travels company has decided to increase its fare by 10%.

Assumptions:

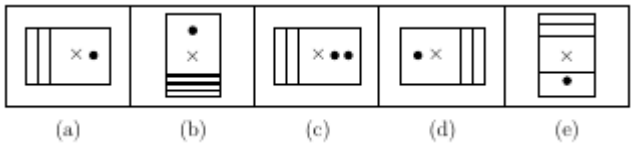
1. Passengers may opt for other buses costing less than the BEST bus travels company.
2. The demand for the buses by some passengers may remain unchanged even after the fare hike.

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

Q71. Rs. 750 invested for 3 months gave an interest of Rs. 18. What was the simple rate of interest per annum?

(a) 2.4%
(b) 9.6%
(c) 7.2%
(d) 12%

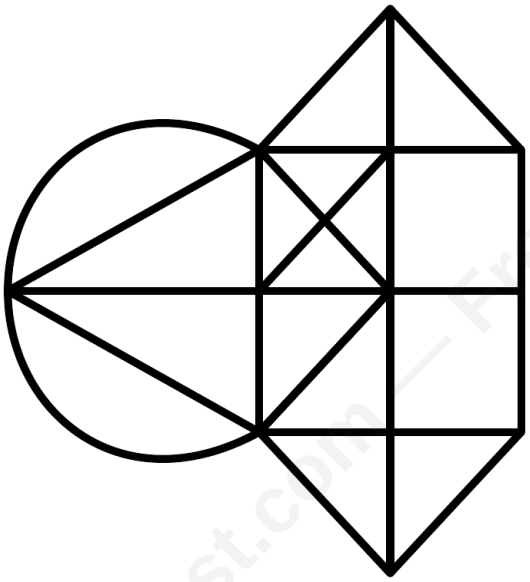
Q72. Select the odd figure out of the given series.



(a) (c)
(b) (a)
(c) (d)
(d) (b)

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Q73. How many triangles are present in the following figure?



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

Q74. Metals react with acids to give:

(a) Salt and chlorine
(b) A salt and base
(c) A salt and hydrogen
(d) Salt and water

Q75. If _____ is involved, even greater diversity will be generated.

(a) Sexual Reproduction
(b) Binary Fission
(c) Vegetative propagation
(d) Asexual Reproduction

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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