RRB ALP CBT I 10 Aug 2018 Shift 3 Official Paper (Previous Year Paper)

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

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STAGE I (CBT I)

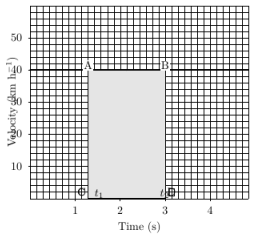
Q1. MABELA, MABLE, MABUSE, MABEPEARL

If the above given words are arranged in the dictionary, then the last word is:

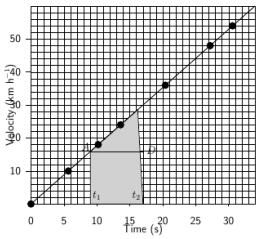
(a) MABELA
(b) MABLE
(c) MABUSE
(d) MABEPEARL

Q2. Which of the following is a velocity-time graph for uniform motion of a car?

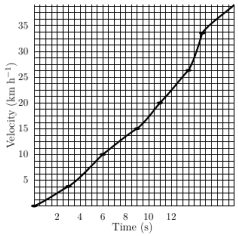
(a)



(b)

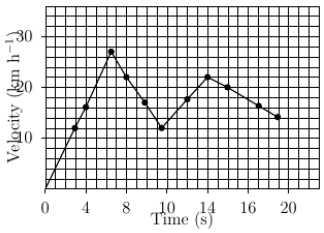


(c)



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(d)



Q3. The work done in one complete revolution of the moon around the earth is equal to:

(a) Zero
(b) Gravitational force × diameter of the orbit of the moon
(c) Centripetal force × radius of the orbit of the moon
(d) Gravitational force × circumference of the orbit of the moon

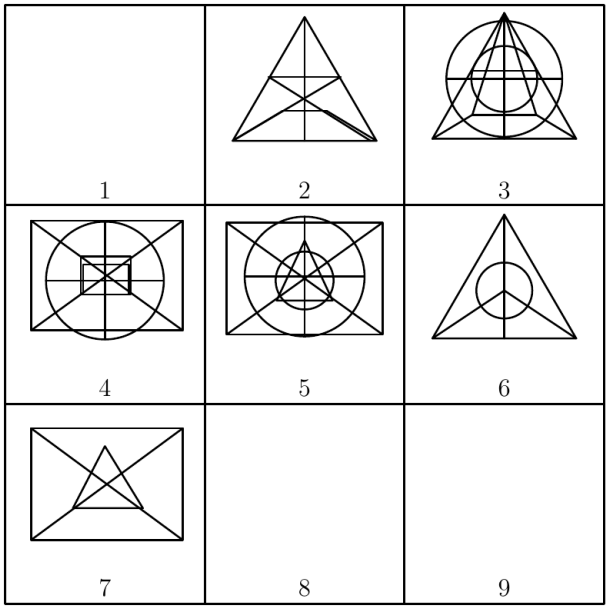
Q4. In plants, the carbohydrates which are NOT used immediately are stored in the form of:

(a) Fatty acids
(b) Fats
(c) Amino acids
(d) Starch

Q5. Which one of the following triad represents Dobereiner's Triad?

(a) Na, Sr, Br
(b) Li, K, Na
(c) Li, Ca, C1
(d) Li, Na, K

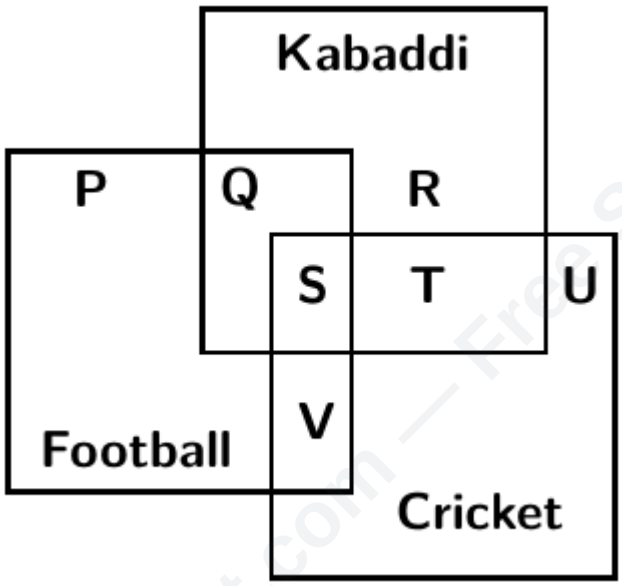
Q6. Use each of the following figures only once and form three groups. The three groups thus formed are:



(a) (1, 5, 9), (2, 6, 7), (4, 3, 8)
(b) (1, 5, 7), (2, 3, 9), (4, 6, 8)
(c) (1, 5, 7), (2, 6, 8), (4, 3, 9)
(d) (1, 5, 7), (2, 6, 9), (4, 3, 8)

Q7. As per the given Venn diagram, the total number of students who play Cricket as well as Football but not Kabaddi is _____.

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(a) P
(b) V
(c) T
(d) R

Q8. One-third of Poojitha's age three years ago plus one-half of her age two years from now is twenty years. How old is he now?
(a) 25 years
(b) 23 years
(c) 26 years
(d) 24 years

Q9. One of the most famous speeches in U.S. Presidential history is 'The Gettysburg Address'. Name the US President who gave this epochal speech.
(a) John F. Kennedy
(b) George Washington
(c) Theodore Roosevelt
(d) Abraham Lincoln

Q10. Ravichandran Ashwin became the fastest player in the world (in terms of number of test matches) to get 300 wickets in test cricket in November 2017. Whose record did Ashwin break?
(a) Dennis Lillee
(b) Malcolm Marshall
(c) Muthiah Muralitharam
(d) Richard Hadlee

Q11. A ball of 0.1 kg is dropped from rest. When it falls through a distance of 2 m, the work done by the force of gravity is ($g = 9.8\ m/s^2$):
(a) -1.96 J
(b) 1.96 J
(c) 0.98 J
(d) -0.98 J

Q12. If WASP STINGS HARD is coded as @%Z, HARD TO HEAL is coded as Z65 and HEAL LONG TIME is coded as 896, what is the code the HARD?
(a) 5
(b) @
(c) 9

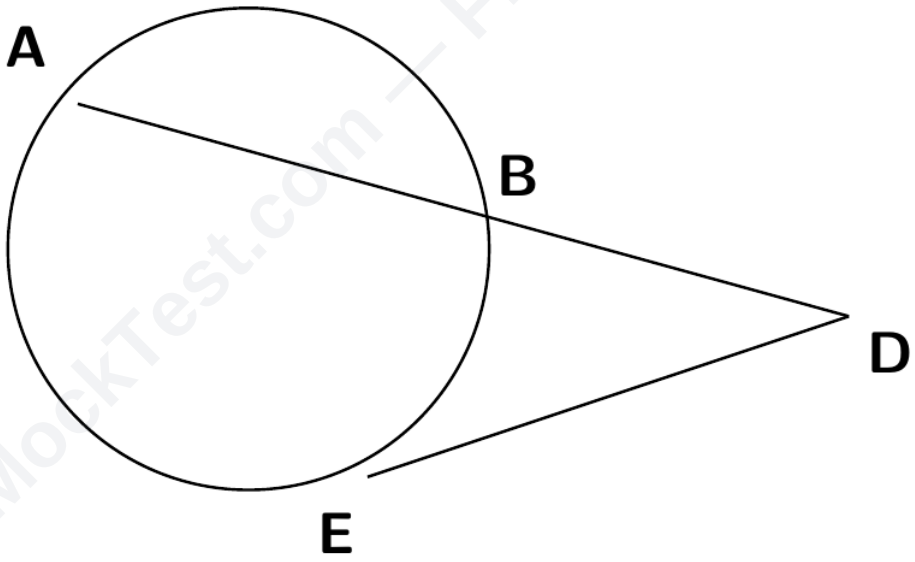
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(d) Z

Q13. How many kilometres are there in one metre?

(a) 0.01
(b) 0.0001
(c) 0.1
(d) 0.001

Q14. In the circle below, chord AB is extended to meet the tangent DE at D. If AB = 5 cm and DE = 6 cm, find the length of BD.



(a) 6 cm
(b) √30 cm
(c) 4 cm
(d) 5 cm

Q15. Which of the following will give a terminating decimal?

(a) 12/36
(b) 9/36
(c) 3/36
(d) 6/36

Q16. Find the missing word for the related pair.

Road : Car ? Sea : ?

(a) Fish
(b) Water
(c) River
(d) Ship

Q17. Consider the given question and decide which of the following statements is sufficient to answer the question.

What is the colour of the granite in the kitchen?

Statements:

1. The colour of the granite is the colour of the wall.
2. The colour of the granite is very bright.

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

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Q18. A wheel has diameter 84 cm. The number of complete revolutions it will take to cover 792 m is:

(a) 300
(b) 350
(c) 330
(d) 320

Q19. Which of the following gases turns lime water milky?

(a) O3
(b) CO
(c) O2
(d) CO2

Q20. Ammonium nitrate, on thermal decomposition, produces:

(a) NH3 and NO
(b) N2O and H2O
(c) N2 and H2O
(d) NH3 and NO2

Q21. The Dr. B. C. Roy awards, instituted in 1962, are given to eminent achievers primarily from which field?

(a) Law
(b) Medicine
(c) Journalism
(d) Sports

Q22. Consider the given statement to be true and decide which of the conclusion(s) logically follow(s) from the statement.

Statement:

Weight is also a force.

Conclusions:

1. The unit of weight is Newton.
2. The unit of weight is Kilogram.

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

Q23. A total amount of Rs. 1560 is to be divided among A, B and C such that A gets 50% of what B gets and B gets 20% of what C gets. How much will B get?

(a) Rs. 540
(b) Rs. 440
(c) Rs. 280
(d) Rs. 240

Q24. Given 17 × 29 = 493, then 170 × 0.029 = ?

(a) 0.493
(b) 4.93
(c) 49.3
(d) 0.0493

Q25. In a computer game, there are builders and destroyers. Together there are 20 of them. Some of them try to build a wall around a castle while the rest try to demolish it. Each of the builders can build the wall alone in 15 hours while any of the destroyers can demolish it in 10 hours. If all 20 builders and destroyers are made active when there is no wall and the wall get built in 3 hours, how many of them are destroyers?

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

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(d) 6

Q26. X leaves his house facing west, drives 100 km, then turns right and drives 100 km. He then turns left and drives 50 km. In which direction is X facing in relation to his starting point?

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

Q27. The square root of 27225 is:

(a) 165
(b) 175
(c) 155
(d) 145

Q28. Which of the following is a Non-Luminous body?

(a) Glowing bulb
(b) Burning candle
(c) Firefly
(d) Moon

Q29. Which of the following is not the properties of an ionic compound?

(a) Low melting and boiling points
(b) Solid and hard
(c) High melting and boiling points
(d) Soluble in water and insoluble in petrol

Q30. The difference between Charles' and Shriya's ages is 6 years. When they married each other 30 years ago, 4 times Cahrle's age was the same as 5 times the age of Shriya. What is the current sum of their ages?

(a) 114 years
(b) 110 years
(c) 112 years
(d) 115 years

Q31. Name the type of mirror used in the headlight of vehicles:

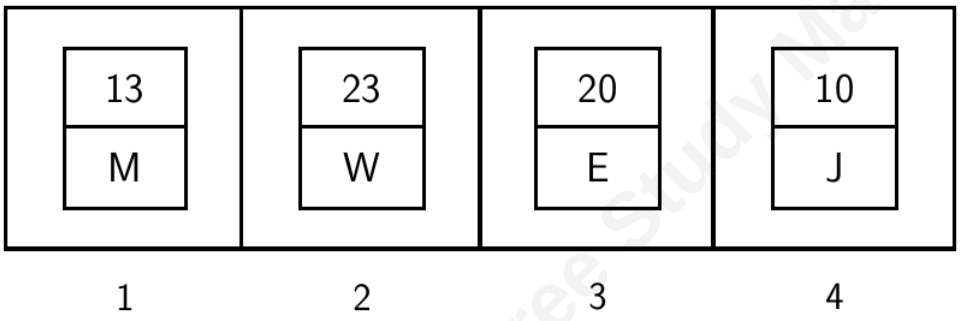
(a) Plane mirror
(b) Concave mirror
(c) Convex mirror
(d) Plano-convex mirror

Q32. Which of the following statements is INCORRECT?

(a) Solids have a definite volume
(b) Solids have an indefinite shape
(c) Solids are rigid
(d) Solids are almost incompressible

Q33. Select the odd figure out of the given series.

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

Q34. Who is the Chief Executive Officer (CEO) of JP Morgan India as of February 2018?
(a) Usha Ananthasubramanian
(b) Kalpana Morparia
(c) Shanthi Ekambaram
(d) Naina Lal Kidwai

Q35. Which one of the following elements has the lowest atomic mass?
(a) Nitrogen
(b) Helium
(c) Lithium
(d) Hydrogen

Q36. Read the given question and decide which of the following argument(s) is/are correct.
Hydrogen is in a cylinder.
Argument 1: Hydrogen is in a liquid state.
Argument 2: Hydrogen is in a gaseous state.
(a) Neither argument 1 nor 2 is correct
(b) Only argument 1 is correct
(c) Only argument 2 is correct
(d) Either argument 1 or 2 is correct.

Q37. The second equation of motion gives the relation between:
(a) Velocity and acceleration
(b) Velocity and time
(c) Position and velocity
(d) Position and time

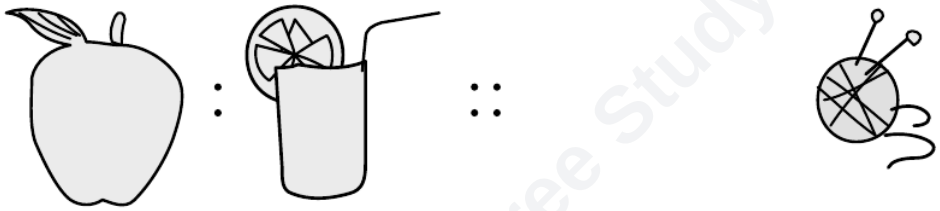
Q38. The amount of $BaSO_4$ formed on mixing an aqueous solution of 2.08 gm of $BaCl_2$ excess of dilute H_2SO_4 is _____.
(atomic weights: Ba = 137, Cl = 35.5, S = 32, O = 16)
(a) 2.33 g
(b) 2.08 g
(c) 23.3 g
(d) 1.04 g

Q39. In ΔABC, AB = 8 cm. angle A is bisected internally to intersect BC at D. BD = 6 cm and DC = 7.5 cm. What is the length of CA?
(a) 12 cm
(b) 12.5 cm
(c) 10.5 cm

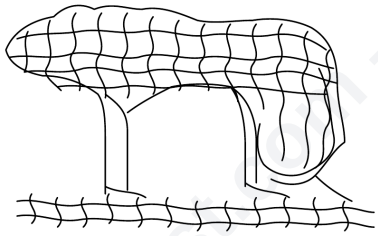
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(d) 10 cm

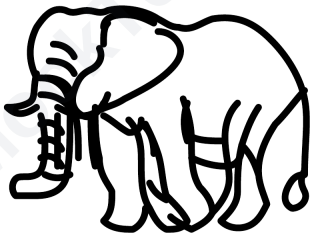
Q40. Select the missing figure based on the given related pair of figures.



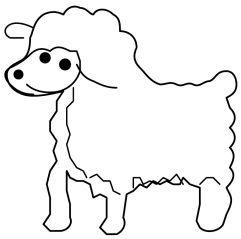
(a)



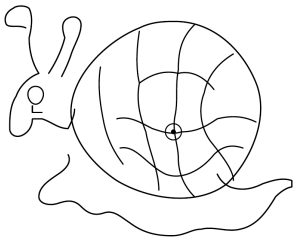
(b)



(c)



(d)



Q41. A sum of money invested for 2 years and 9 months at the rate of 8% simple interest per annum became Rs. 732 at the end of the period. What was the sum that was initially invested?

(a) Rs. 600
(b) Rs. 575
(c) Rs. 500
(d) Rs. 550

Q42. Direction: Study the table given below and answer the following question.

City	Population	Literate	Illiterate	% of literates
A	200	150	50	•

B	•	200	100	66.6
C	150	50	100	•
D	120	•	90	25

Based on the given data, the total percentage of literates in the four cities together, round to one decimal, is _____.

(a) 55.7
(b) 55
(c) 55.8
(d) 55.9

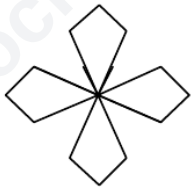
Q43. Find the first negative term of the below A.P.

129, 120, 111, 102, …

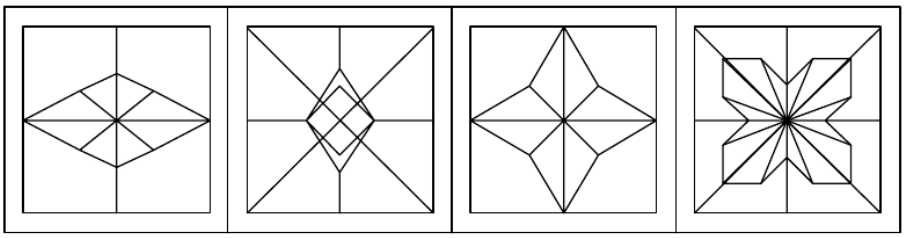
(a) 15^(th) term
(b) 14^(th) term
(c) 16^(th) term
(d) 13^(th) term

Q44. The given problem figure is embedded in one of the given answer figures. Which is that answer figure?

Problem Figure



Answer Figures



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

Q45. 3^(rd) January 2018 was a Wednesday. Which of the following years will also have 3^(rd) January on a Wednesday?

(a) 2022
(b) 2023
(c) 2020
(d) 2024

Q46. Solve the following. {30 - (60 ÷ 5 × 16 - 8 ÷ 2 ÷ 3)} = ?

(a) 37
(b) 29
(c) 30
(d) 14

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Q47. Which Indian female mountaineer recently created the fastest record of scaling Mount Everest back-to-back twice within 5 days?

(a) Bachendri Pal
(b) Premlatha Agarwal
(c) Arunima Sinha
(d) Anshu Jamsenpa

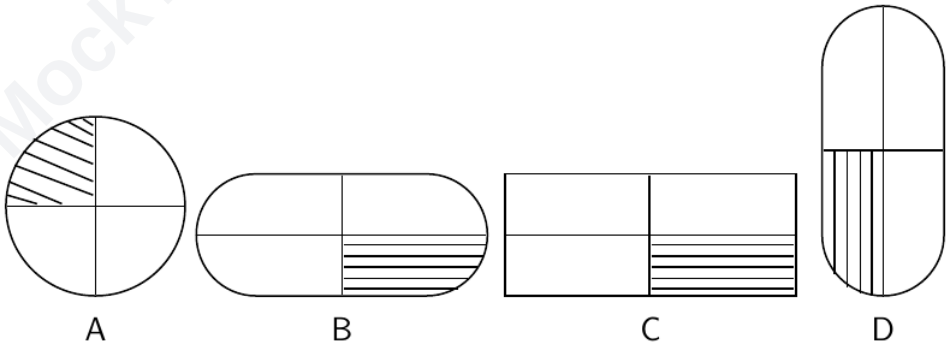
Q48. Who is the Deputy Chief Minister of Bihar ?

(a) Ram Vilas Paswan
(b) Vijay Kumar Sinha
(c) Lalu Prasad Yadav
(d) Shatrughan Sinha

Q49. The process of taking up a permanent shape, size, and function to form a permanent tissue is called:

(a) Differentiation
(b) Formation
(c) Calcification
(d) Unification

Q50. Select the figure which does NOT belong to the group.



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

Q51. Which of the options depicts the correct mirror image of the given figure?

15UP5062

(a)

2605PU51

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(b)



(c)



(d)



Q52. Which of the following options correctly describes the given statement?

Statement:

There are four rooks in a game of chess.

(a) Never
(b) Sometimes
(c) Always
(d) Often

Q53. Consider the given statement as true and decide which of the given conclusions can definitely be drawn from the given statements:

Statement:

All rivers are holy. All gods are holy.

Conclusion:

1. All rivers are gods.
2. All gods are rivers.

(a) Neither 1 or 2 follows
(b) Only conclusion 1 follows
(c) Only conclusion 2 follows
(d) Both 1 and 2 follows

Q54. Ryaan is Vehaan's mother's sister's father's only son's son. How is Ryaan related to Vehaan?

(a) Cousin
(b) Nephew
(c) Uncle
(d) Son

Q55. Dakshin Gangotri is a research base station set up by Indian scientists. Where is it located?

(a) Cauvery Basin
(b) Sri Lanka
(c) Sundarbans Delta

(d) Antarctica

Q56. The ratio of the heights of Nani and Leelu is 4 : 3. If Leelu is 1.2 m tall, then what is the height of Nani?

(a) 1.6 m
(b) 0.9 m
(c) 2 m
(d) 1.8 m

Q57. The SI unit of electric charge is:

(a) Ampere
(b) Coulomb
(c) Ohm
(d) Volt

Q58. Select the appropriate combination of mathematical operators to be sequentially placed between the numbers given on the left of the following equation so that LHS = RHS.

5 * 0 * 3 * 5 = 20

(a) • × -
(b) • + ×
(c) × + -
(d) • - ×

Q59. Consider the given argument and decide which of the given assumptions is (are) implicit.

Argument:

"A visit of school students to botanical garden to widen their knowledge of natural resources has been arranged" - a message on the notice board in the school.

Assumptions:

1. Botanical gardens are full of natural resources.
2. School students are likely to understand more through interaction with the new environment.

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

Q60. If X has two sisters - Y and Z, and W's mother is the sister of Y's father, then W is Z's _____.

(a) Cousin
(b) Father
(c) Niece
(d) Mother

Q61. Which of the following does NOT act as both, metal and non-metal?

(a) Boron
(b) Bismuth
(c) Arsenic
(d) Germanium

Q62. _____ is not an endocrine gland in humans.

(a) The pineal gland
(b) The pituitary gland
(c) The liver
(d) The adrenal gland

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Q63. Select the number missing from the given sequence.

1, 2, 6, _____, 120, 720

(a) 12
(b) 24
(c) 9
(d) 50

Q64. A can complete a task alone in 8 days, while B takes 12 days to do it by herself. Together with C it takes them 4 days to complete the work. If C and D together can complete the task in 15 days, then how many days will D need to complete the task by herself?

(a) 30
(b) 40
(c) 36
(d) 32

Q65. Which of the following films is India's official entry to Oscars 2018?

(a) Bahubali
(b) A death in the Gunj
(c) Newton
(d) Lipstick under my Burkha

Q66. Which of the following can inhabit the most inhabitable habitats like hot springs, deep sea, thermal vents and ice in Antarctica?

(a) Bacteria
(b) Viruses
(c) Amoeba
(d) Euglena

Q67. After buying a toy for Rs. 66, Raghu managed to sell it at a profit of 15%. The selling price of the toy was:

(a) Rs. 75.20
(b) Rs. 75.90
(c) Rs. 76.90
(d) Rs. 70.80

Q68. What does Coulomb's Law state?

(a) The magnitude of the force of attraction (or repulsion) between two-point charges is directly proportional to the product of the quantity of the two charges and to the square of the distance between them.
(b) The magnitude of the force of attraction (or repulsion) between two-point charges is inversely proportional to the product of the quantity of the two charges and directly proportional to the square of the distance between them.
(c) The magnitude of the force of attraction (or repulsion) between two-point charges is inversely proportional to the product of the quantity of the two charges as well as to the square of the distance between them.
(d) The magnitude of the force of attraction (or repulsion) between two-point charges is directly proportional to the product of the quantity of the two charges and inversely proportional to the square of the distance between them.

Q69. If the number x4441 is divisible by 11, what is the face value of x?

(a) 5
(b) 3
(c) 2
(d) 4

Q70. The Indian and Japanese Prime Ministers have recently signed a high-speed rail project deal that will connect Mumbai with which major city?

(a) Bangalore
(b) Ahmedabad
(c) Hyderabad
(d) New Delhi

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Q71. Who is the director of Indian cinema's highest grossing film Bahubali?

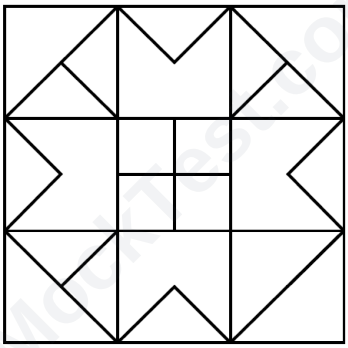
(a) Sanjay Leela Bhansali
(b) Karan Johar
(c) Gautham Vasudev Menon
(d) SS Rajamouli

Q72. If ABCD is a trapezium, AC and BD are the diagonals intersecting each other at point O, then AC : BD is:

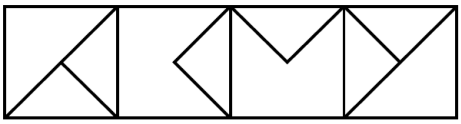
(a) AB + AD : DC + BC
(b) AB : CD
(c) OA – OC : OB – OD
(d) AD : BC

Q73. Choose the correct figure that replaces the question mark.

Problem Figure



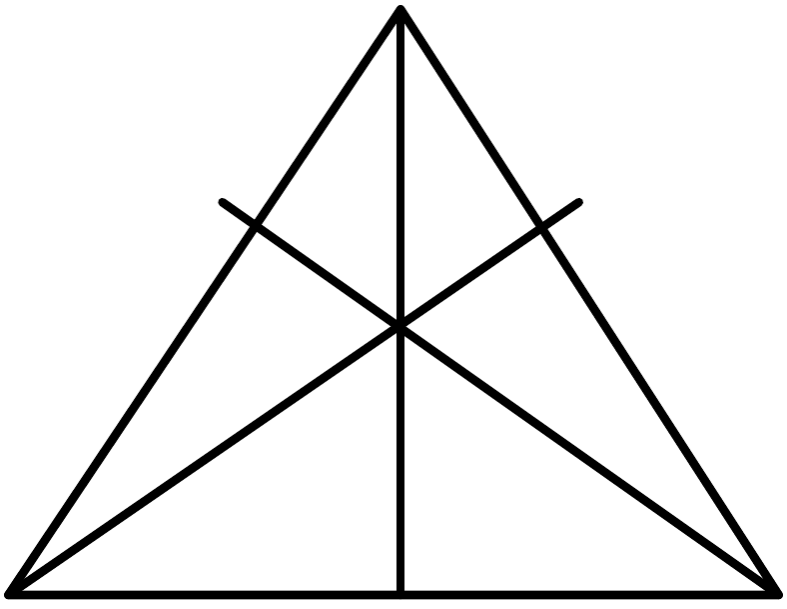
Answer Figures



A **B** **C** **D**

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

Q74. Select the option that represents the number of triangles in the following figure.



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(a) 15
(b) 12
(c) 17
(d) 16

Q75. The number of letters that are preceded by a symbol but not followed by a number in the given expression is _____.
$M@A#N2B4O&3C5P+D2

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

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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