RRB ALP CBT I 30 Aug 2018 Shift 1 Official Paper (Previous Year Paper)

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

Take this paper as a timed mock test

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

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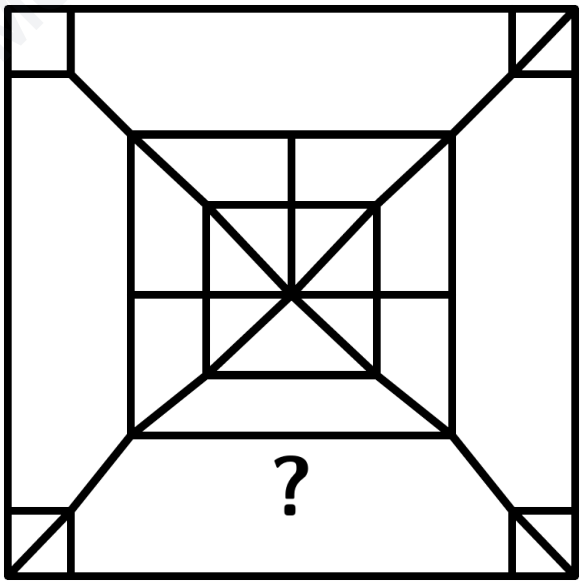
Scan the QR code or click the link to open it.

STAGE I (CBT I)

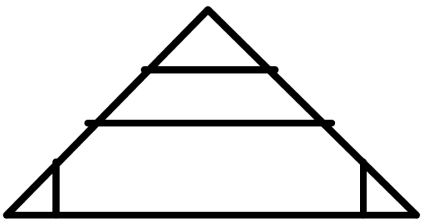
Q1. The state of matter can be changed into another state by changing the:

(a) Volume
(b) Density
(c) Shape
(d) Temperature

Q2. Select the option that can replace the question mark in the following figure.

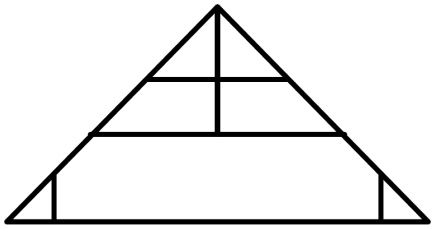


(a)

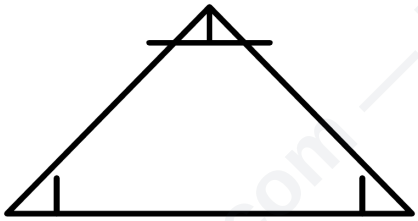


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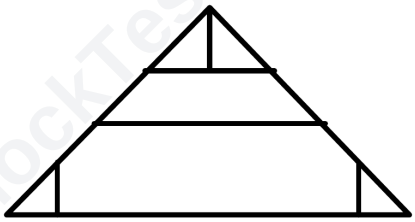
(b)



(c)



(d)



Q3. The Kochi-Muziris Biennale held in Kochi, Kerala is an exhibition of which of the following?

(a) Kerala martial art of Kalaripayattu
(b) Old Malayalam movies
(c) Kathakali dance
(d) Contemporary art

Q4. The chemical formula of Sodium Carbonate is:

(a) Na3CO2
(b) Na2CO
(c) NaCO3
(d) Na2CO3

Q5. Consider the given statement to be true and decide which of the conclusions logically follow(s) from the statement.

Statement:

Public smoking has increased in the current year.

Conclusions:

1. Government should ban public smoking.
2. Government should create awareness about ill effects of public smoking.

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

Q6. In a certain code, if ZIGZAGGING is written as AZGIZGNIGG, then how will BLIZZARDLY be written as in the same code?

(a) ZZILBYLDRA
(b) ZZILBIYLDRA
(c) ZZILLBYLDRA
(d) ZZILBYDRA

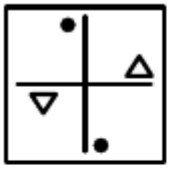
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Q7. The Charter of Liberties- popularly known as 'The Magna Carta'- was signed in England in which year?

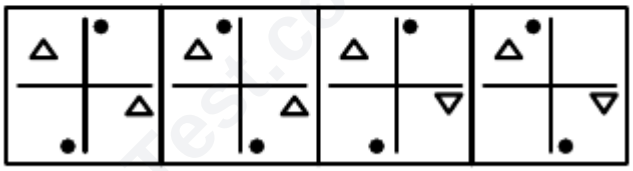
(a) 1415 AD
(b) 1315 AD
(c) 1215 AD
(d) 1115 AD

Q8. Which of the given answer figure depicts the correct water image of the given problem figure?

Problem figure



Answer figure



A B C D

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

Q9. What would be the smaller of the two angles formed by the hour hand and the minute hand at 4 : 52 p.m.?

(a) 162°
(b) 164.5°
(c) 165°
(d) 166°

Q10. Vistara airline is a joint venture between Tata Sons and which international airlines?

(a) Lufthansa
(b) Malaysian Airlines
(c) British Airways
(d) Singapore Airlines

Q11. While releasing the arrow from a stretched bow, the Potential Energy of the bow is converted into?

(a) chemical energy
(b) kinetic energy
(c) sound energy
(d) heat energy

Q12. Consider the given question and decide which of the following statements is sufficient to answer the question.

If LIKE GOOD HABIT is coded as 126, then what will be the code for HABIT?

Statements:

1. I LOVE PICTURES is coded as 785.
2. THOUGHT BECOMES HABIT is coded as 856.

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

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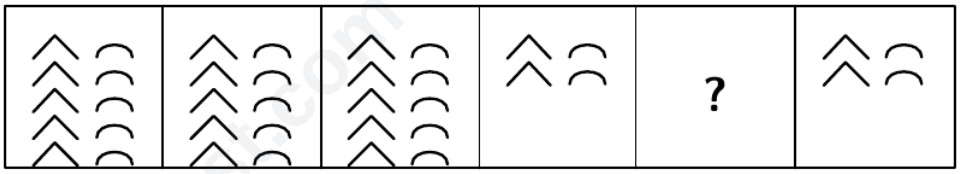
Q13. Which of the following is used to get relief when you have been stung by a honeybee?

(a) Common salt
(b) Baking soda
(c) Acetic acid
(d) Washing soda

Q14. If 2/3^(rd) of a pizza costs Rs. 300, then 3/5^(th) of a pizza will cost:

(a) Rs. 180
(b) Rs. 250
(c) Rs. 225
(d) Rs. 270

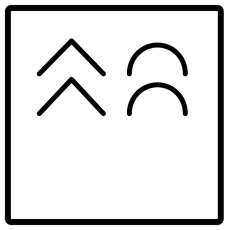
Q15. Select the option that will correctly fit in the blank space in the given figure series.



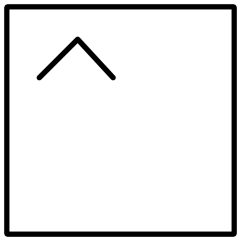
(a)



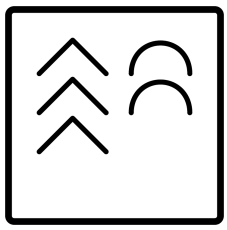
(b)



(c)



(d)



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Q16. On which river's bank is Panaji located?

(a) Mandovi
(b) Zuari
(c) Sal
(d) Terekhol

Q17. 72% of a number is 90. What is the number?

(a) 120
(b) 125
(c) 130
(d) 124

Q18. Consider the given statement true and decide which of the given assumptions is/are implicit.

Statement:
It is desirable to start writing from 6 years of age.
Assumptions:
1: Fine motor skills are well developed by 6 years of age.
2: Children cannot write before 6 years of age.

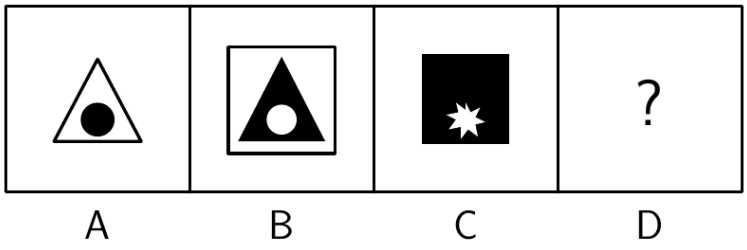
(a) Neither assumption 1 nor 2 is implicit.
(b) Only assumption 2 is implicit.
(c) Both assumptions I and 2 are implicit.
(d) Only assumption 1 is implicit.

Q19. Split 69 into three parts such that they are in A.P. and the product of the two smallest numbers is 483.

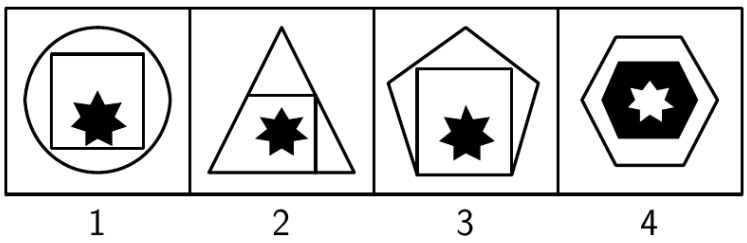
(a) 19, 23, 27
(b) 17, 23, 29
(c) 15, 23, 31
(d) 21, 23, 25

Q20. Choose the correct figure from the answer figures to replace the question mark.

Problem figure



Answer figure



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

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Q21. The length of one side of a rhombus is 61 cm and its area is 1320 cm². Find the sum of the lengths of its diagonals.

(a) 120 cm
(b) 122 cm
(c) 142 cm
(d) 71 cm

Q22. In 2017, which Indian scientist was honoured with the Living Legend Award by the International Union of Nutritional Sciences (IUNS) for stellar contributions in the area of nutrition?

(a) Rohini Godbole
(b) Tessy Thoms
(c) Mahtab Bamji
(d) Suman Sahaia

Directions

Direction: The given chart shows men's and women's average daily earning in Company X.

Q23. Based on the depicted data, in which year was the percentage increase of the average daily earning of men maximum over the preceding year?

(a) 2003
(b) 2001
(c) 2002
(d) 2004

Q24. What is the range of frequencies of sound waves audible to human beings?

(a) 16 kHz to 200 kHz
(b) 16 Hz to 16 kHz
(c) 20 Hz to 20 kHz
(d) 14 Hz to 20 kHz

Q25. In a test, Charan secured 54 marks that were also equivalent to obtaining 72% marks. What is the total marks of the test?

(a) 75
(b) 85
(c) 80
(d) 65

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Q26. Select the odd term out of the following.

0.02, 0.020, 2/100, 0.002

(a) 0.002
(b) 0.020
(c) 0.02
(d) 2/100

Q27. Using the expression V W Y 9 P O N I 5 F S L U D T G 6 1 A J, find the missing term from the following series.

9WA, OOD, _____, FD9

(a) NSI
(b) IF5
(c) FI5
(d) NFL

Q28. Consider the given statement as true and decide which of the given conclusions can definitely be drawn from the given statements.

Statements:

Some teachers are rich.

All diabetics are rich.

Conclusions:

1. Some diabetics are teachers.
2. Some rich people are diabetic.

(a) Only conclusion 2 can be drawn
(b) Neither 1 nor 2 can be drawn
(c) Both 1 and 2 can be drawn
(d) Only conclusion 1 can be drawn

Q29. In a class consisting of boys and girls, there are 45 students. If three fifth of the students are boys, find the number of boys in the class.

(a) 25
(b) 26
(c) 27
(d) 18

Q30. Consider the given statement and decide which of the following assumption(s) is implicit.

Statement:

“You are expected to be honest before the advocate” — an instruction to be followed in front of a defence lawyer.

Assumptions:

1. Unless cautioned, the clients tend to hide certain vital facts to save themselves.
2. At times, the vital facts are required to strategize the defence argument.

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

Q31. Mechanical energy is equal to:

(a) Kinetic energy + Chemical energy
(b) Kinetic energy + Potential energy
(c) Kinetic energy + Heat energy
(d) Kinetic energy + Electrical energy

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Q32. Which of the following is added to iron to make iron hard and strong?

(a) Zinc
(b) Copper
(c) Carbon
(d) Sodium

Q33. The value of 122 + 345 - 3 ÷ 1116 × 372 is:

(a) 466
(b) 469
(c) 446
(d) 460

Q34. In the morning X and Y are walking towards each other in a park. When they meet, Y's shadow' falls upon X. In which direction was X facing?

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

Q35. A watch loses 5 minutes every hour and was set right at 6 a.m. on a Monday. When will it show the correct time again?

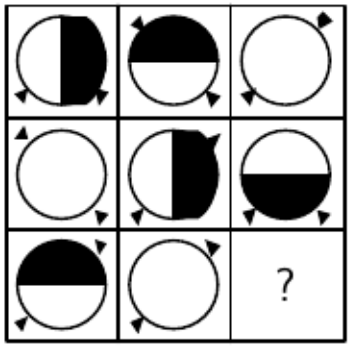
(a) 6 a.m. on next Sunday
(b) 3 am. on next Monday
(c) 3 am. on next Sunday
(d) 6 am. on next Monday

Q36. Who was the UPA candidate for the Vice President's post in the 2017 elections?

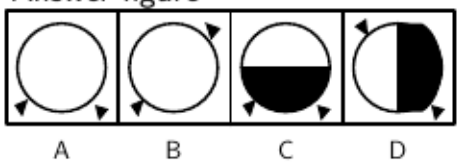
(a) Arun Gandhi
(b) Gopalkrishna Gandhi
(c) Varun Gandhi
(d) Sonia Gandhi

Q37. Select the Answer Figure that correctly fits in the blank space in the given Problem Figure.

Problem figure



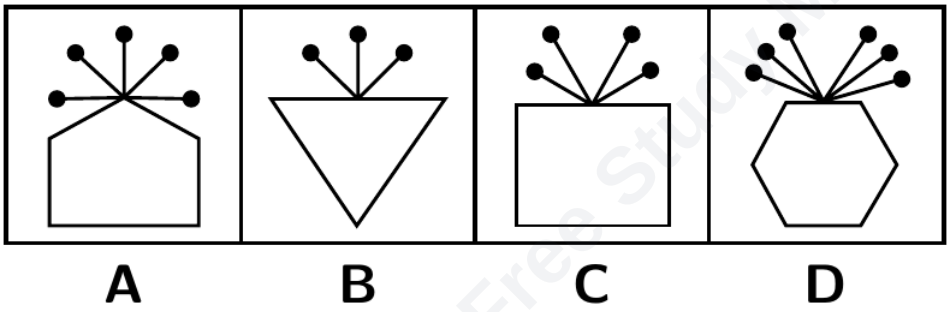
Answer figure



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

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Q38. Select the picture which does NOT belong to the group.



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

Q39. A wooden block of mass m1 kg accelerates at 10 ms^(-2) when a force of 5 N acts on it. Another block of mass m2 kg accelerates at 20 ms^(-2) when the same force acts on it. If both the blocks are tied together and the same force acts on their combination, the acceleration will be about:

(a) 6.67 ms^(-2)
(b) 1.67 ms^(-2)
(c) 5.67 ms^(-2)
(d) 4.67 ms^(-2)

Q40. Which of the following statements is INCORRECT?

(a) Atomic size increases from top to bottom.
(b) Isotopes of the same elements are placed in the same group.
(c) All the elements of a group have the same valency.
(d) Atomic radius generally decreases from right to left

Q41. 72 ÷ 1/2{15 + 12 - (9 + 6 - 5 + 7)} = ?

(a) 6
(b) 9
(c) 12
(d) 8

Q42. Which of the following numbers is irrational?

(a) cbrt64
(b) √64
(c) 6√64
(d) 4√64

Q43. A girl child has which of the following combinations of chromosomes in her cells?

(a) 44 autosomes + XX
(b) 22 autosomes + XX
(c) 44 autosomes + XY
(d) 22 autosomes + XY

Q44. The percentage of water of crystallization in washing soda is _____

(a) 1.80
(b) 37.06
(c) 10.6
(d) 62.9

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Q45. Read the following question and decide which of the given statements is/are sufficient.

What is the total number of illegal immigrants?

Statements:

1. 30% of the total illegal immigrants are from Bangladesh.
2. Remaining are from India.

(a) 1 alone is sufficient while 2 alone is not sufficient to answer the question.
(b) Both 1 and 2 together are sufficient to answer the question.
(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.

Q46. Who is the Bengali writer who won the 31^(st) Moortidevi Award for the year 2017?

(a) Joy Goswami
(b) Taslima Nasreen
(c) Subhro Bandhopadhyay
(d) Baby Haider

Directions

Direction: A table is given below, study the table carefully and answer the following question.

Year	Items of Expenditure			
Salary	Food	Medicine	Tax	
2001	Rs. 1,500	Rs. 200	Rs. 500	Rs. 100
2002	Rs. 2,600	Rs. 300	Rs. 600	Rs. 200
2003	Rs. 3,200	Rs. 150	Rs. 700	Rs. 150
2004	Rs. 4,100	Rs. 250	Rs. 650	Rs. 125
2005	Rs. 5,000	Rs. 200	Rs. 800	Rs. 150
2006	Rs. 5,200	Rs. 100	Rs. 750	Rs. 175

Q47. Based on the given table, the percentage salary increase during the period 2001-2006 was (round off to the nearest integer).

(a) 248%
(b) 247%
(c) 246%
(d) 245%

Q48. NaCl is a salt which is made up of:

(a) Strong acid and weak base
(b) Weak acid and weak base
(c) Strong acid and strong base
(d) Weak acid and strong base

Q49. The mean of the 5 smallest numbers from a group is 15 while the mean of all the 13 members of the group taken together is 17. What is the mean of the 8 largest numbers?

(a) 18.50
(b) 17.75
(c) 18.75
(d) 18.25

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Q50. A and B together can do a piece of work in 10 days. If A can do the work in 15 days, find in how many days that B alone can do the same work. Given below are the steps involved in solving the above problem. Arrange them in sequential order.

(A) One day's work of B is 1/10 - 1/15

(B) One day's work of A and B is 1/10 and one day's work of A is 1/15

(C) B alone can do the work in 30 days

(D) One day's work of B is 1/30

(a) BADC
(b) ABDC
(c) BCAD
(d) BDAC

Q51. Akash's monthly income is Rs. 9600. His monthly expenditure is 60% of his income. What is his saving per month?

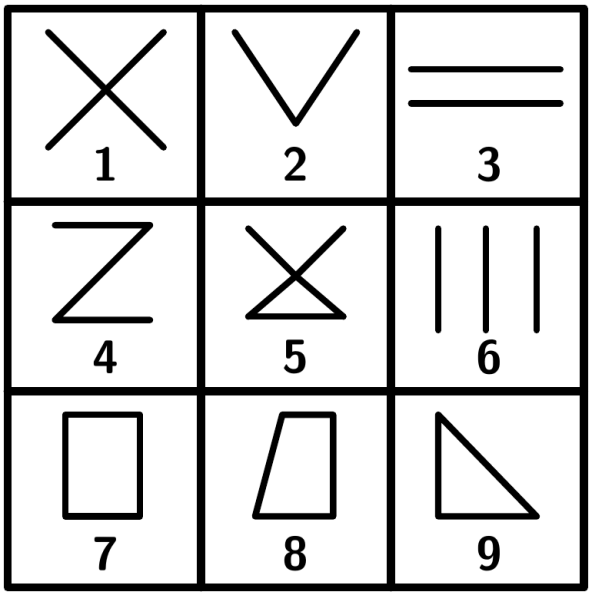
(a) Rs. 3,840
(b) Rs. 3,870
(c) Rs. 3,940
(d) Rs. 3,850

Q52. Select the related letters from the given alternatives.

VMR : ZIS :: AKT :_____.

(a) HIR
(b) EOU
(c) FHS
(d) EGU

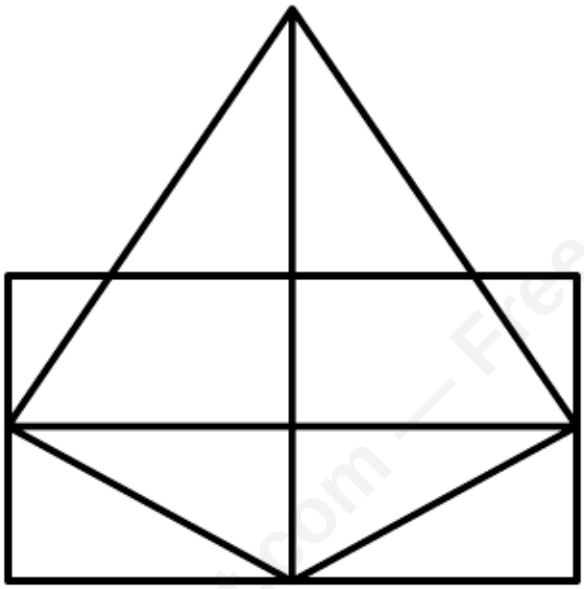
Q53. Use each of the below figures only once and form three groups. The three groups Thus, formed are:



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

Q54. Select the option that represents the number of triangles in the given figure.

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(a) 14
(b) 15
(c) 13
(d) 17

Q55. Which former Indian cricket player has taken charge as the Indian cricket team's head coach in 2017?
(a) Bishen Singh Bedi
(b) Sunil Gavaskar
(c) Ravi Shastri
(d) Chetan Chauhan

Q56. 'Battery' is related to 'Terminals' in the same way as 'Magnet' is related to _____.
(a) Repel
(b) Poles
(c) Pointing north
(d) Attract

Q57. Pick the odd one out from the following:
(a) Glass
(b) Aluminium
(c) Silver
(d) Copper

Q58. _____ tissue changes the diameter of a blood vessel.
(a) Heart
(b) Muscle
(c) Epithelial
(d) Bone

Q59. Two pipes namely A and B can fill a tank in 25 minutes and half an hour respectively and a pipe C can empty 3 gallons per minute. All three pipes working together can fill the tank in 15 minutes. The capacity of the tank is:
(a) 450 gallons
(b) 300 gallons
(c) 240 gallons
(d) 150 gallons

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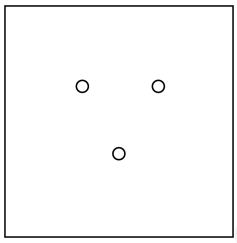
Q60. Which of the following quantities remains constant and does NOT change from place to place?

(a) Mass
(b) Force due to friction
(c) Weight
(d) Gravity

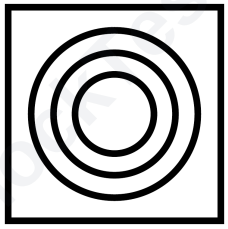
Q61. Which of the following Venn diagrams correctly represents the following classes:

Karnataka, India, Asia

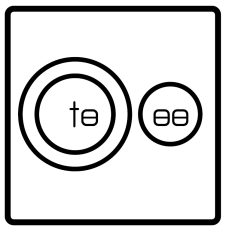
(a)



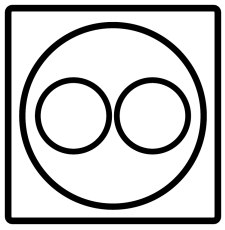
(b)



(c)



(d)



Q62. Select the appropriate combination of letters that when sequentially placed in the gaps of the given letter series will complete the series.

_vww_uuv_wvuu_w

(a) uvwu
(b) uvwv
(c) uwvu
(d) vwuv

Q63. In human beings, the respiratory pigment is:

(a) Chlorophyll
(b) Melanin
(c) Rhodopsin
(d) Hemoglobin

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Q64. Find the value of 8 × {5 - (- 2) × (- 3)}.

(a) 8
(b) -168
(c) 88
(d) -8

Q65. The HCF of 56, 140 and 168 is:

(a) 28
(b) 7
(c) 14
(d) 4

Q66. Two particles with charges q1 and q2 are kept at a certain distance to exert force F on each other. If the distance is reduced to one-fifth, then the force between them is:

(a) F/25
(b) 5F
(c) F/5
(d) 25 F

Q67. Alkali metals are assigned which group in the Modern Periodic Table?

(a) Second group
(b) Eighteenth group
(c) Third group
(d) First group

Q68. A boy raises a box with a weight of 120 N from a height of 2 m. The work done by him is _____.

(a) 60 J
(b) 120 J
(c) 240 J
(d) 130 J

Q69. In a class when a test is conducted mean of 25 students marks is 60. If mean of first 13 students marks is 70 and mean of last 13 students marks is 50, find the marks of the middle student when arranged in the ascending order.

(a) 70
(b) 40
(c) 50
(d) 60

Q70. Which Indian Maharatna Company has been the title sponsor of Hockey India League since 2016?

(a) Gas Authority of India (GAIL)
(b) National Thermal Power Corporation. (NTPC)
(c) Coal India Limited (CIL)
(d) Oil and Natural Gas Corporation (ONGC)

Q71. The value of k, for which the quadratic equation $4x^2 + 4\sqrt{3}x + k = 0$ has equal roots, is:

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

Q72. 15 years ago, Cynthia was thrice as old as Brittany. The sum of their present ages is 94 years. How old is Brittany now?

(a) 33 years
(b) 32 years
(c) 30 years

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(d) 31 years

Q73. By selling a used phone for Rs. 6160, Rajan got 44% less than what it cost him to buy it a few years ago. At what price should Rajan have been able to sell it to make a profit of 5%?

(a) Rs. 12,550
(b) Rs. 11,550
(c) Rs. 12,000
(d) Rs. 10,500

Q74. Which character is recessive in a pea plant?

(a) Wrinkled seed
(b) Green pod
(c) Round pod
(d) Round seed

Q75. Who is the Chairman of the Film and Television Institute of India as of February 2018?

(a) Jaya Prada
(b) Anupam Kher
(c) Mithun Chakraborty
(d) Jaya Bachchan

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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