RRB ALP CBT I 31 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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STAGE I (CBT I)

Q1. Bipul is 16 years younger than Saibal. 12 years hence, Saibal's age will be 1.5 times that of Bipul. Saibal is now_____years old.

(a) 45
(b) 36
(c) 40
(d) 42

Q2. If ΔABC ≅ ΔXYZ and angle BAC = 55°, then angle ZXY = ?

(a) 67.5°
(b) 55°
(c) 135°
(d) 65°

Q3. The distance between two places can be covered in 31/2 hours at a speed of 62 km/hr. If the speed is increased by 8 km/hr, how much time would be saved?

(a) 20 minutes
(b) 24 minutes
(c) 15 minutes
(d) 30 minutes

Q4. Name the former world silver medallist representing Manipur who claimed gold in the 48 kg category at the 2018 National Women's Boxing Championships in Rohtak.

(a) Sarjubala Devi
(b) Mithali Raj
(c) Shobha Pandit
(d) Sravanthi Naidu

Q5. Select the option that correctly matches the contents of the first column with the contents of the second column.

A.	**Elements combine in fixed ratios**	**I.**	**Dalton's atomic theory**
B.	Atoms are indivisible	II.	The same number of molecules
C.	Sulphate and oxalate ions are anions, whereas magnesium and	III.	Law of constant proportions
D.	Gram atomic mass of an element and the gram molecular mass of a compound contain	IV.	Ammonium ions are cations

(a) A - III, B - II, C - IV, D - I
(b) A - III, B - I, C - IV, D - II
(c) A - I, B - III, C - IV, D - II
(d) A - III, B - IV, C - I, D - II

Q6. Given below are the ages (in years) of a group of children. What is the median age?

7, 9, 8, 6, 5, 3, 9, 2

(a) 6
(b) 6.5
(c) 5
(d) 6.125

Q7. If a rod of length 2084/5 is cut into equal pieces of length 231/5 then the total number of rods obtained is:

(a) 7
(b) 9
(c) 8
(d) 5

Q8. Direction: The given table represents the marks obtained by four students W, X, Y and Z in four subjects P, C, B and M, the maximum marks in each subject being 100.

Stu/sub	P	C	B	M
W	70	90	50	85
X	55	80	95	60
Y	60	20	90	40
Z	90	80	40	65

Based on the given data, the student who got the lowest percentage in P, C, M, and B combined is:

(a) X
(b) W
(c) Y
(d) Z

Q9. By selling an item for Rs. 696 Unnati incurred a loss of 13%. By how much should she have raised the price to gain a profit of 10%?

(a) Rs. 104
(b) Rs. 160.08
(c) Rs. 184
(d) Rs. 84

Q10. Name the character in Mahabharata who was blessed with the 'divine vision' to see the Mahabharata battle and explain it scene by scene to the blind king Dhritarashtra.

(a) Vidura
(b) Dussala
(c) Sanjaya
(d) Balarama

Q11. Which of the below given fractions is NOT equal to 9/17 ?

(a) 108/221
(b) 27/51
(c) 63/119
(d) 153/289

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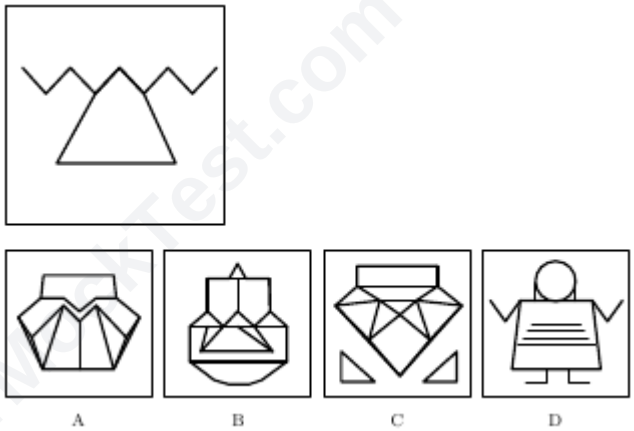
Q12. The forces between two bodies are always equal and opposite. This idea is stated in the form of Newton's:

(a) second law of motion
(b) third law of motion
(c) first and second law of motion
(d) first law of motion

Q13. Which of the following is NOT a constituent of biogas?

(a) Methane
(b) Carbon Monoxide
(c) Carbon Dioxide
(d) Hydrogen Sulphide

Q14. The given problem figure is embedded in one of the given answer figures. Which of the following is that figure?



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

Q15. The denominator of a rational number exceeds its numerator by 10. If the numerator is increased by 4 and the denominator is reduced by 3, the number obtained is 5/6. The original rational number is:

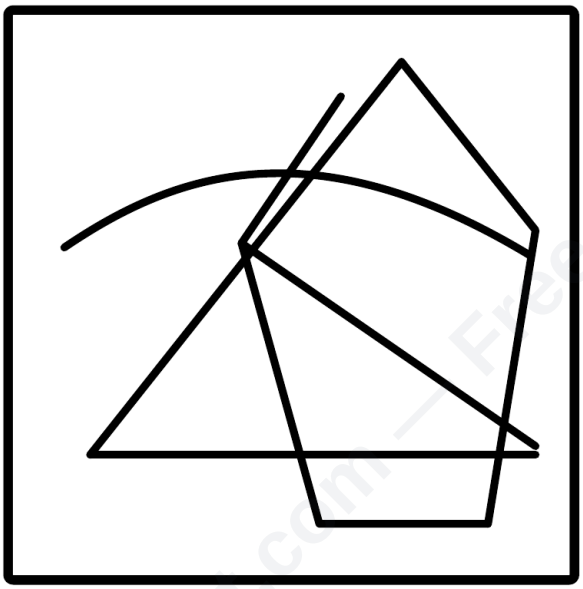
(a) 9/19
(b) 11/21
(c) 13/23
(d) 7/17

Q16. An object of 1.2 cm height is placed 30 cm before a concave mirror of focal length of 20 cm to get a real image at a distance of 60 cm from the mirror. What is the height of the image formed?

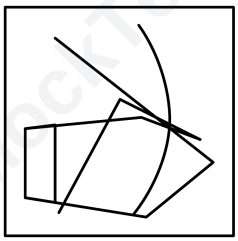
(a) −3.6 cm
(b) −2.4 cm
(c) 1.2 cm
(d) 2.4 cm

Q17. Select the option that depicts the correct mirror image of the following figure.

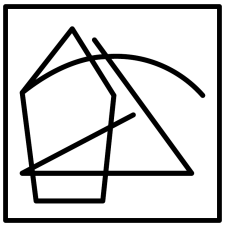
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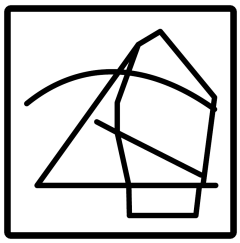
(a)



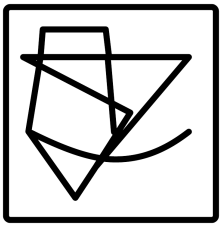
(b)



(c)



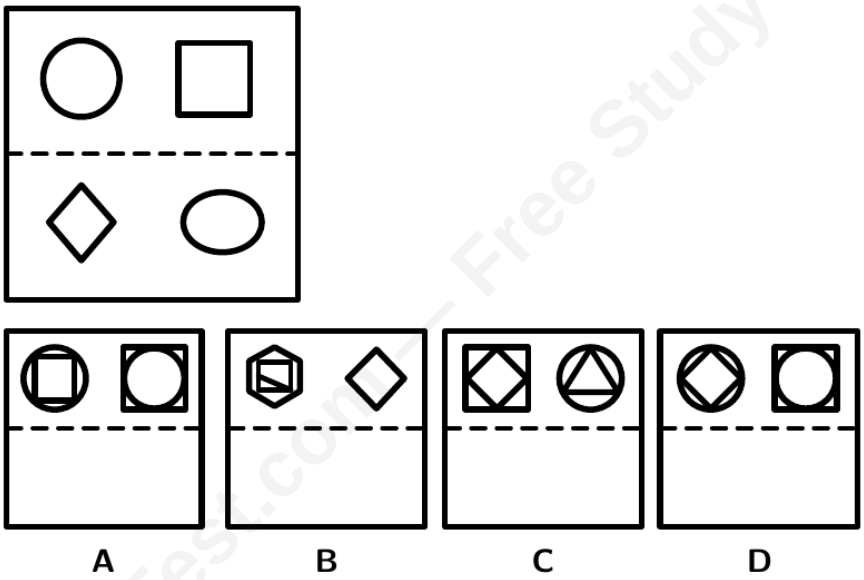
(d)



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Q18. Select the option that depicts the following transparent sheet (Problem Figure) when folded at the dotted line shown.

Problem Figure



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

Q19. Name the Indian golfer who won the Royal Cup at Pattaya on 31 December 2017. This was his third Asian Tour title of 2017.

(a) Shiv Kapur
(b) Khalin Joshi
(c) Jyoti Randhawa
(d) Gaganjeet Bhullar

Q20. Which of these rivers primarily flows in South Africa?

(a) Orange River
(b) Nile River
(c) Congo River
(d) Niger River

Q21. Which of the following elements was the last element in Newland's Law of Octaves?

(a) Rubidium
(b) Thorium
(c) Bromine
(d) Hydrogen

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

Statements:

The manufacturing companies in Tamil Nadu are facing acute power shortage.

Course of Action:

1. Government should take steps to solve the power crisis.
2. Government should shut down manufacturing companies to save power.

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

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(d) Only 1 follows.

Q23. Consider the given statements to be true and decide which of the suggested courses of action logically follow(s) on the basis of the information given in the statements.

Statements: The pollution and air quality in Delhi is beyond the acceptable level. This is due to industrial and automobile exhaustion.

Course of action:

1. Automobiles should be divided into groups to be run only on odd and even days, respectively.

2. The government should stop the registration of new factories and vehicles.

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

Q24. In a class, 60% of children like Mathematics, 45% like Science and 25% like both Mathematics and Science. What is the percentage of children who like at least one subject?

(a) 70%
(b) 55%
(c) 80%
(d) 45%

Q25. A section of DNA that provides information for one protein is called the _____.

(a) gene
(b) chromosome
(c) lysosome
(d) nucleus

Q26. What is the percentage of methane in biogas?

(a) 75%
(b) 90%
(c) 80%
(d) 60%

Q27. Primary growth in plants occurs by:

A. Vertical meristem

B. Lateral meristem

C. Intercalary meristem

D. Apical meristem

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

Q28. Which ex-cricketer has acted in the movies 'Team 5' and 'Aksar 2'?

(a) Salil Ankola
(b) Mohammad Azharuddin
(c) S. Sreesanth
(d) Zaheer Khan

Q29. Which of the following statements is wrong with regard to strong acids?

(a) Minerals acids are strong acids.
(b) Hydrochloric Acid, Sulphuric acid and Nitric Acid are strong acids.
(c) Strong acids react very rapidly with other substances (such as metal carbonates and metal hydrogen carbonates).
(d) Acids are those chemical substances that have a salty taste.

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

Statement:

During an exam, an invigilator said, “if anyone tries to copy. I will cancel their exam”.

Assumptions:

1. Some students copy during exams.
2. Students will not copy during exams.

(a) Both assumptions 1 and 2 are implicit.
(b) Only assumption 2 is implicit.
(c) Only assumption 1 is implicit.
(d) Either assumption 1 or 2 is implicit.

Q31. Calculate the work done by the force of gravity when a satellite moves in an orbit of radius 40,000 km around the earth.

(a) 8,000 J
(b) 4,00,000 J
(c) 4,000 J
(d) 0 J

Q32. The latest issued banknotes in the denomination of Rs. 50 by RBI have what motif on their reverse side?

(a) Red Fort
(b) Sanchi Stupa
(c) Mangalyaan
(d) Stone chariot of Hampi

Q33. The sum of the lengths of the edges of a cube is equal to four times the perimeter of a square. If a quarter of the numerical value of the volume of the cube is equal to the numerical value of the area of the square, then the length of one side of the square is:

(a) 27 units
(b) 9/4 units
(c) 10.5 units
(d) 27/16 units

Q34. _____ is the most ductile metal.

(a) Ph
(b) Ag
(c) C
(d) Au

Q35. 35% of an alloy was silver. If in the quantity of alloy there was 119 g of silver, what was the quantity of the other elements in the alloy?

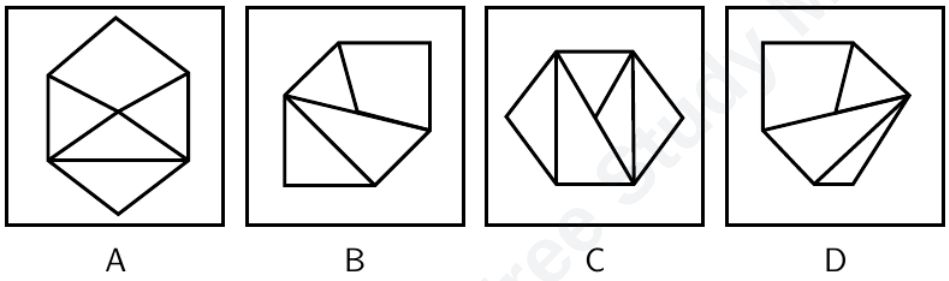
(a) 221 g
(b) 340 g
(c) 204 g
(d) 273 g

Q36. If a person bought an item for Rs. 96 and sold it at a profit of 12.5%, what was the selling price of the item?

(a) Rs. 110
(b) Rs. 112
(c) Rs. 108
(d) Rs. 105

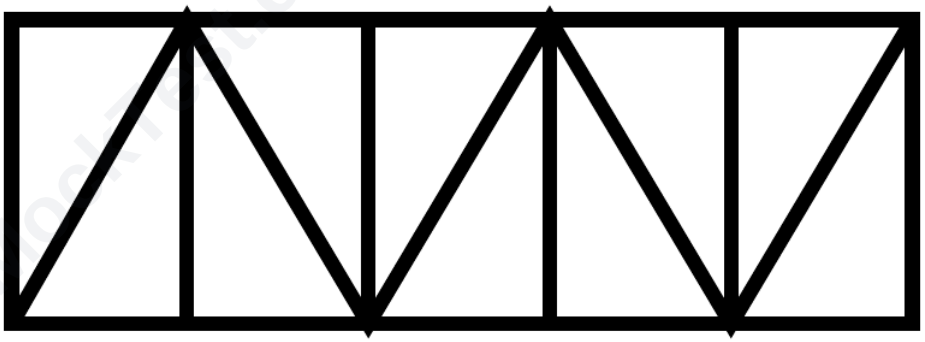
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Q37. Select the figure that does NOT belong in the following group.



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

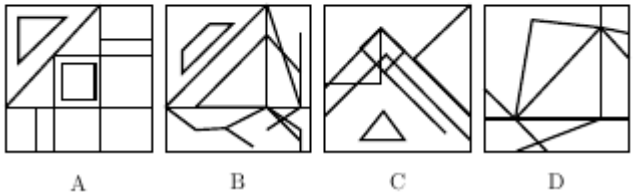
Q38. Select the option that represents the number of triangles in the given figure.



(a) 12
(b) 10
(c) 15
(d) 14

Q39.





The above figure is embedded in any of these four figures (A,B,C,D). The correct figure containing the above figure is

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

Q40. An element A forms an oxide with the formula A_3O_4. What is the valency of element A?

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

Q41. Select the missing number based on the given related pair of numbers.

158 : 384 :: 140 :_____

(a) 346
(b) 348
(c) 347
(d) 349

Q42. Which of the following is an anthropology museum that presents an integrated story of the evolution of man and culture with special reference to India?

(a) The Indira Gandhi Sangrahalaya (IGS)
(b) The Indira Gandhi Jantu Sangrahalaya (IGJS)
(c) The Indira Gandhi Rashtriya Manav Sangrahalaya (IGRMS)
(d) The Indira Gandhi Pustak Sangrahalaya (IGPS)

Q43. The centre of the reflecting surface of a spherical mirror is a point called the _____.

(a) pole
(b) aperture
(c) radius
(d) focus

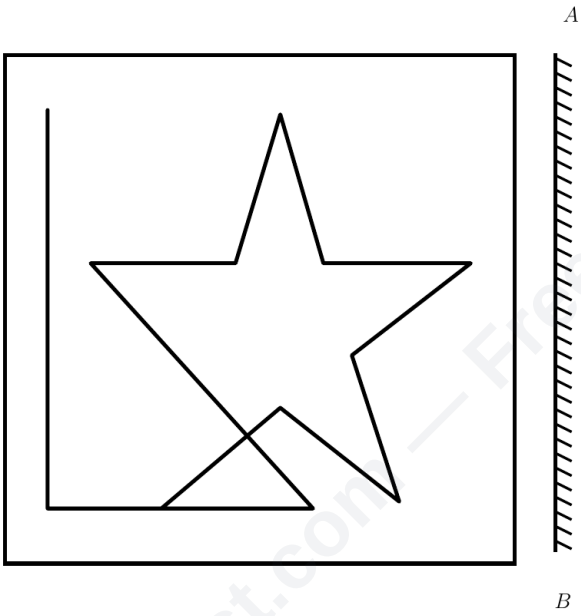
Q44. Match the following with the correct response:

List I	List II		
1.	W	A.	Nm
2.	kW	B.	3.6 × 106 J
3.	1 kW.h	C.	1000 W
4.	1 HP	D.	746 W

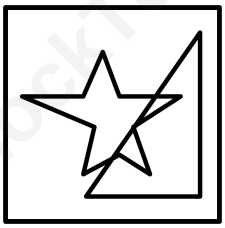
(a) 1 - A, 2 - C, 3 - B, 4 - D
(b) 1 - D, 2 - B, 3 - C, 4 - A
(c) 1 - A, 2 - C, 3 - D, 4 - B
(d) 1 - A, 2 - B, 3 - C, 4 - D

Q45. Select the option that depicts the correct mirror image of the following figure if the mirror is held at the AB line.

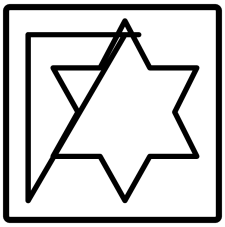
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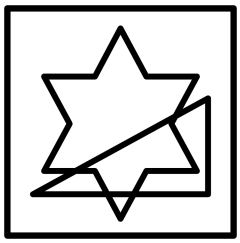
(a)



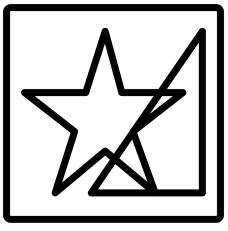
(b)



(c)



(d)



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Q46. The value of 16 – [5 – 2{14 of 2 – (8 ÷ 4 × 2 – 1 + 3)}] is:

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

Q47. The maximum number of electrons that can be accommodated in a shell is indicated by the formula:

(a) 2n
(b) $2n^2$
(c) $2n^3$
(d) 2n^(−2)

Q48. In the given sequence, if every letter from the 8^(th) position from the left side is replaced by its next letter in the English alphabet series, then how many 'V's will be there in the resulting sequence?

ZUDJKNCXVCSLLIEBSFJVATWQK

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

Q49. The Dhola-Sadiya Bridge, dedicated to the nation by Prime Minister Narendra Modi, is built across which river?

(a) Ganges River
(b) Lohit River
(c) Narmada River
(d) Yamuna River

Q50. Direction: The given table represents the marks obtained by four students W, X, Y and Z in four subjects P, C, B and M and the maximum marks in each subject being 100.

Stu/sub	P	C	B	M
W	70	90	50	85
X	55	80	95	60
Y	60	20	90	40
Z	90	80	40	65

The average marks of the four students in M is:

(a) 62.25
(b) 62.5
(c) 62.75
(d) 62

Q51. Which actor plays the role of social activist Arunachalam Muruganantham in the biopic movie 'Pad Man'?

(a) Irrfan Khan
(b) Mohanlal
(c) Nana Patekar
(d) Akshay Kumar

Q52. _____, present in the centre of a flower, forms the female reproductive part.

(a) Stamens
(b) Petals
(c) Sepals
(d) Carpels

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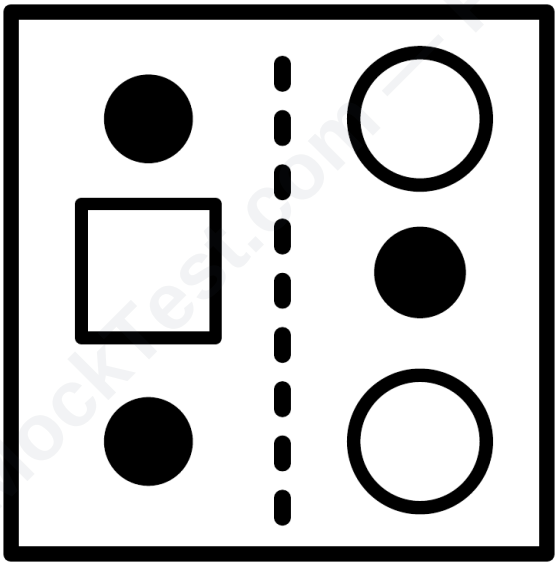
Q53. What will be the 20th term in the given sequence?

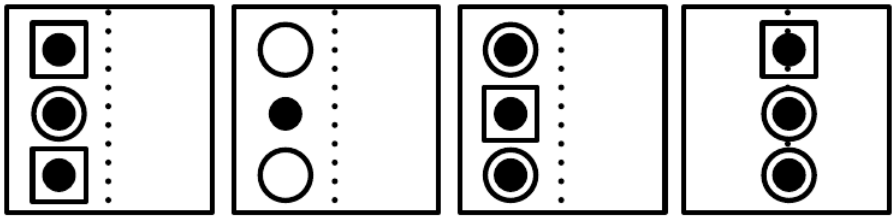
-50, -47, -44, _____

(a) 10
(b) 7
(c) -7
(d) -10

Q54. Select the option that depicts the following transparent sheet (Problem Figure) when folded at the dotted line shown.

Problem Figure





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

Q55. Sunil started his journey at 2:33:34 p.m. and reached the destination at 4:43:45 p.m. Anil started the journey 45 minutes 27 second after Sunil and reached the destination 37mins 16secs after him. How long did Anil take to complete his journey?

(a) 1 hour 59 mins
(b) 2 hours 1 min 12 secs
(c) 2 hours 2 secs
(d) 2 hours 2 mins

Q56. Consider the given statement to be true and decide which of the courses of action logically follow(s) from the statement.

Statements:

Due to heavy rain in Bangalore, the normal lives of the citizens are paralysed.

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Course of Action:

1. Government should take measures to help people and avoid life and property destruction.
2. Government should provide free treatment in all the hospitals of Bangalore.

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

Q57. Three triangles are marked out of a bigger triangle at the three vertices such that each side of each of the smaller triangles is one-fourth as long as each corresponding side of the bigger triangle. The ratio of the area of the three small triangles taken together to that of the rest of the bigger triangle is:

(a) 3 : 13
(b) 4 : 15
(c) 3 : 16
(d) 1 : 5

Q58. Which of the following is a rational number?

(a) ?32
(b) cbrt32
(c) ^6√32
(d) ^5√32

Q59. Consider the given question and decide which of the following statements is sufficient to answer the question.

X took a loan from Y on compound interest. Find the rate per annum?

Statements:

1. After 3 years, X paid Rs. 500 as interest.
2. After 3 years, X paid Rs. 1,500 to clear his loan with Y.

(a) Either 1 or 2 is sufficient to answer the question.
(b) 1 alone is sufficient while 2 alone is not sufficient to answer the question.
(c) 2 alone is sufficient while 1 alone is not sufficient to answer the question.
(d) Both 1 and 2 are sufficient to answer the question.

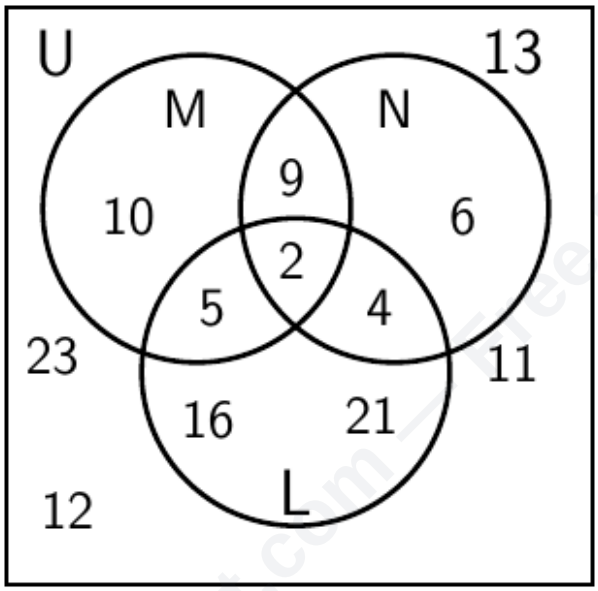
Q60. A 145 m long train crosses a 655 m long bridge in 36 seconds. What is the speed of the train?

(a) 75 km/h
(b) 60 km/h
(c) 80 km/h
(d) 70 km/h

Q61. In the given diagram, Set U is the universal set and Set L, M and N represent students studying History, Geography and Language, respectively.

What is the total number of students studying History and Geography but NOT Language?

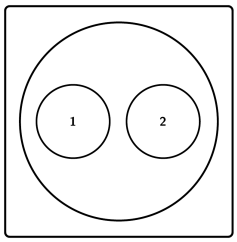
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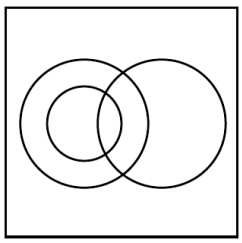
(a) 2
(b) 12
(c) 5
(d) 7

Q62. Which of the following diagrams represent the relationship between Male, Husband and Model.

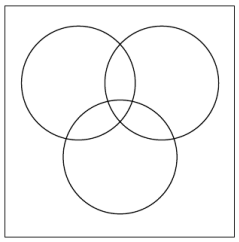
(a)



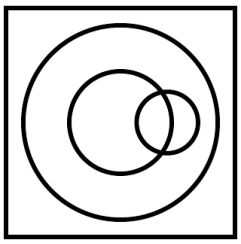
(b)



(c)



(d)



Q63. Select the INCORRECT set of Molecular Formula - IUPAC Name - Common Name from the following options.

(a) C2H5OH - Ethanol - Ethyl Alcohol
(b) C4H9OH - Butanol - Butyl Alcohol
(c) C3H7OH - Propanol - Propyl Alcohol
(d) C2H3OH - Methanol - Methyl Alcohol

Q64. The value of 14 ÷ {(5 of 2 – 3)} × 4(7 – 2) is:

(a) 40
(b) 14/19
(c) 1/10
(d) 44

Q65. Pinaki is 9 years younger than Bhaswati. Thirteen years hence Bhaswati will be 1.2 times as old as Pinaki. Find Pinaki's present age.

(a) 30 years
(b) 33 years
(c) 28 years
(d) 32 years

Q66. Which part of the brain regulates breathing?

(a) Fore-brain
(b) Cerebellum
(c) Mid-brain
(d) Medulla

Q67. Solve the following:

196 – 19.6 – 1.96 – 0.196 = ?

(a) 174.234
(b) 173.254
(c) 174.244
(d) 173.234

Q68. Facing North, X turns 205° clockwise and then 160° anticlockwise. In which direction X is facing now?

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

Q69. What is the value of acceleration due to gravity on the surface of the earth?

(a) 9.6 cm/s²
(b) 9.8 m/s²
(c) 10.8 m/s²
(d) 9.8 cm/s²

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Q70. Using the sequence V W Y 9 P O N I 5 F S L U D T G 6 1 A J, find the term missing from the following series.

YP, _____, 5S, LD

(a) OT
(b) PN
(c) N5
(d) OI

Q71. What will come in place of '?' in the following equation?

4 + 1/6 × [{- 12 × (24 - 12 - 4)} ÷ (20 - 4)] = ?

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

Q72. Acids that contain Hydrogen and other non-metallic element(s), except Oxygen, are called:

(a) Dilute acids
(b) Hydracids
(c) Strong acids
(d) Weak acids

Q73. Direction: The following table gives the details of the number of students in Class 10, Section A and B, who had taken the midterm and final exams.

Result	Section A	Section B
Total number of students who failed in both the exams	28	23
Number of students who failed in the midterm but passed in the final exam	14	12
Number of students who passed in the midterm but failed in the final exam	6	17
Number of students who passed in both the exams	64	55

Based on the given data, the percentage of Section A students who passed the annual exam is_____.

(a) 69.64
(b) 69.59
(c) 69.54
(d) 69.70

Q74. Select the option that can replace the question mark (?) in the following equation.

$((0.2)^3 - (0.1)^3)/((0.2 + 0.1)^2) = ?$

(a) 3/40
(b) 1/18
(c) • 7/90
(d) 7/90

Q75. Who is the CEO of Cognizant Technology Solutions as of February 2018?

(a) Francisco D'Souza
(b) Nandan Nilekani
(c) Azim Premji
(d) Vishal Sikka

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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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