RRB ALP CBT I 21 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. Rs. x invested at 8% simple interest per annum for 5 years yields the same interest as that on Rs. y invested at 7.5% simple interest per annum for 6 years. Find x : y.

(a) 9 : 8
(b) 5 : 6
(c) 16 : 15
(d) 40 : 45

Q2. The 2016 Olympics bronze medalist Sakshi Malik hails from which state?

(a) Haryana
(b) Uttaranchal
(c) Bihar
(d) Punjab

Q3. In a water molecule, the ratio of the mass of Hydrogen to the mass of Oxygen is always _____.

(a) 7:1
(b) 8:1
(c) 1:7
(d) 1:8

Q4. Select the correct option that will complete the given series.

UE5, TF4, SG6, RH3, _____

(a) QI4
(b) QI1
(c) QI7
(d) QI8

Q5. If the number x4562 is divisible by 9, what is the value of x?

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

Q6. Choose the correct alternative which will complete the following series.

4, 8, 12, 24, 18, ?

(a) 36
(b) 27
(c) 72
(d) 54

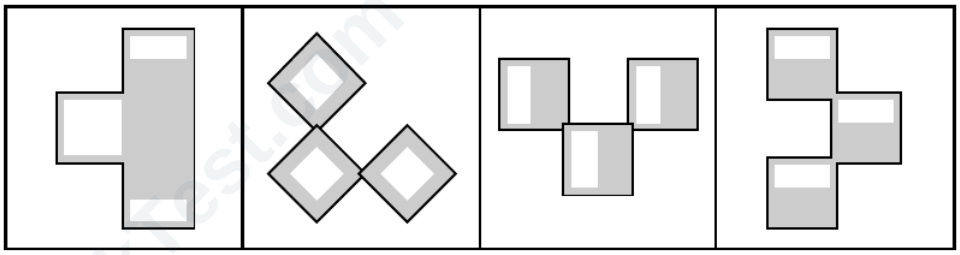
Q7. 23 × 19 = 437. How much is 0.0437 ÷ 1.9 = ?

(a) 0.0023
(b) 2.3
(c) 0.023
(d) 0.23

Q8. The maximum number of electrons that can be accommodated in a shell depends on the formula ____.

(a) $2n^2$
(b) n^2
(c) $1n^2$
(d) $3n^2$

Q9. Select the figure which does NOT belong to the group.



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

Q10. A defective piece of article which costs Rs. 1200 is being sold at a loss at 15%. If the price is further reduced by 5%, find the S.P.

(a) Rs. 1000
(b) Rs. 969
(c) Rs. 960
(d) Rs. 990

Q11. Tanya got an increment of 15% in her salary. If her enhanced salary is Rs. 14,030. What was her original salary?

(a) Rs. 12,400
(b) Rs. 12,000
(c) Rs. 12,300
(d) Rs. 12,200

Q12. The sum of numbers from 1 to 100 (inclusive of both) is:

(a) 5500
(b) 5505
(c) 5050
(d) 5005

Q13. The formula C6H14 represents the hydrocarbon _____.

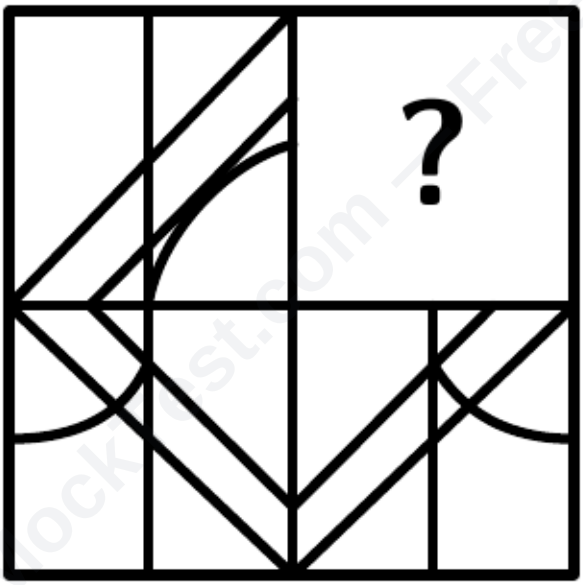
(a) Hexene
(b) Hexane
(c) Hexyne
(d) Heptyne

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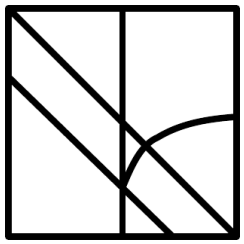
Q14. Which of the following solutions is the most acidic among them all?

(a) Solution with pH value 0
(b) Solution with pH value 1
(c) Solution with pH value 6
(d) Solution with pH value 7

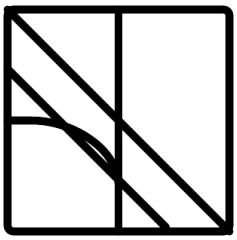
Q15. Select the option that fits in the blank space in the following figure.



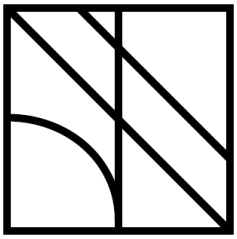
(a)



(b)

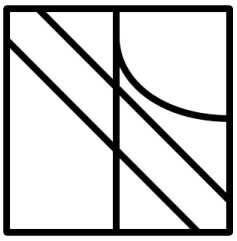


(c)



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(d)



Q16. Out of three pipes the first two can fill an empty tank in 9 hours and 18 hours, respectively while the third can drain the filled tank in 15 hours. If all the three pipes are opened when the tank is empty, after how many hours will the tank be full?

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

Q17. If tanx = √2 – 1, then the value of tanx – cotx is:

(a) √2 – 1
(b) -2
(c) 1
(d) 2√2

Q18. Work done by a passenger standing on a platform holding a suitcase weighing 10 kg is:

(a) 100 J
(b) 0 J
(c) 98 J
(d) 980 J

Q19. The square root of 5184 is:

(a) 72
(b) 82
(c) 74
(d) 76

Q20. Consider the given and decide which of the given assumptions is (are) implicit.

Argument:

An Army General said, ‘shoot now’ to the soldier.

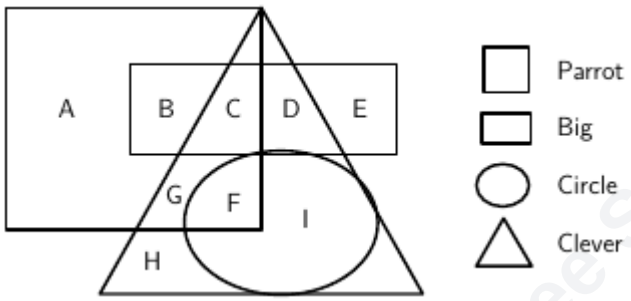
Assumptions:

1. The soldier knows where and what to shoot.
2. The Army General doesn’t know how to shoot.

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

Q21. Select the option that means ‘Big Clever Parrot’ according to the following Venn diagram.

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(a) C
(b) F
(c) B
(d) M

Q22. Select the most appropriate term for the given set of items.



(a) Snow
(b) Rain
(c) Heat
(d) Seasons

Q23. Select the option is which the two words are related in the same way as the words in the given pair are related.

Rapid : Slow

(a) Stop : Cease
(b) Wait : Remain
(c) Increase : Shrink
(d) Stare : Peer

Q24. By how many atomic mass units do subsequent members of homologous series differ?

(a) 26
(b) 32
(c) 20
(d) 14

Q25. 15 small rods, each of length 232/7 m are joined to make a big rod. What then is the length of the big rod?

(a) 3493/7m
(b) 3491/7m
(c) 3492/7m
(d) 3495/7m

Q26. Decide which of the conclusions logically follow(s) from the information given the statement.

Statement:

People are often seen selling things on the footpath in busy market areas.

Conclusions:

1. Take help of police to clear the footpath from these vendors.
2. Some place should be allotted to these vendors to sell their goods without blocking the footpath.

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

Q27. The square root of 6084 is:
(a) 74
(b) 82
(c) 76
(d) 78

Q28. The energy released at the end of digestion is in the form of:
(a) Kinetic energy
(b) Thermal energy
(c) Chemical energy
(d) Electric energy

Q29. Which country hosted the 2018 Asian Games?
(a) China
(b) Japan
(c) Indonesia
(d) South Korea

Q30. One of the roots of the equation $x^2 – 6x + k = 0$ is $x = 2$. The other root is:
(a) $x = 4$
(b) $x = -1$
(c) $x = -4$
(d) $x = 1$

Q31. Which type of reproduction allows for a greater variation to be generated?
(a) Binary fission
(b) Asexual reproduction
(c) Multiple fission
(d) Sexual reproduction

Q32. Pointing to a boy in a photograph, Neena said, “He is the son of my grandmother’s only daughter”. How is Neena related to the boy?
(a) Sister
(b) Aunt
(c) Mother
(d) Grandmother

Q33. In a certain code, if PEARLS is written as 823745 and JEWELS is written as 926245, then in the same code, what will WEARS be written as?
(a) 62375
(b) 62573
(c) 62735
(d) 62374

Q34. Select the most appropriate term for the given set of items.

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(a) Analytics
(b) Graphs
(c) Rubrics
(d) Mathematics

Q35. Select the missing term based on the given related pair.



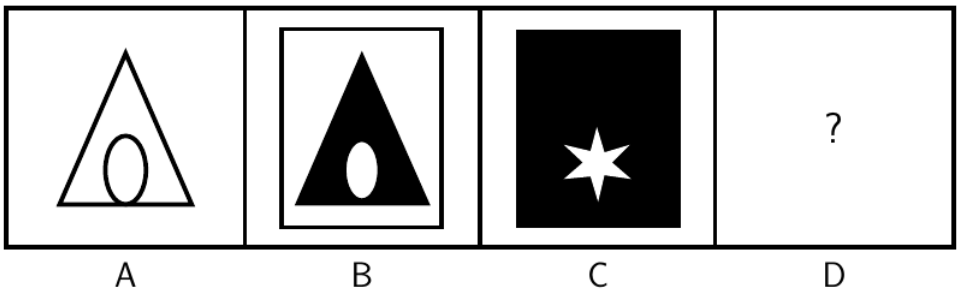
(a) Nest
(b) Aviary
(c) Den
(d) Shed

Q36. What is the upward force exerted by water called ?

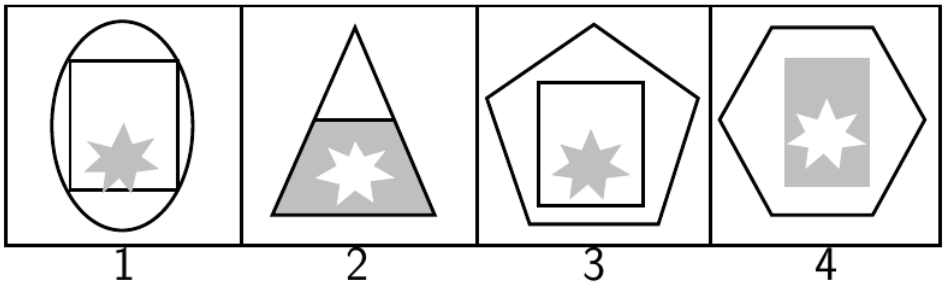
(a) Gravitation
(b) Density
(c) Buoyant force
(d) Friction

Q37. Choose the correct figure that replaces the question mark.

Problem Figures



Answer Figures



(a) 2
(b) 1

(c) 4
(d) 3

Q38. If the resistance of a conductor is reduced to half its initial value, then the heating effect in the conductor will become _____.
(a) One-fourth
(b) Half
(c) Double
(d) Four-times

Q39. Which top Bollywood actor has been a long-standing brand ambassador for the car marker Hyundai Motors?
(a) Akshay Kumar
(b) Abhishek Bachchan
(c) Shah Rukh Khan
(d) Salman Khan

Directions

Direction: The below table gives the details of the number of students in Class 10, section A and B who had taken mid-term and final exam. Study the table carefully and answer the following question.

Result	Section A	Section 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

Q40. What is the total number of students in both, section A and B?
(a) 292
(b) 291
(c) 219
(d) 221

Q41. Consider the given statement to be true and decide which of the assumptions is/are implicit.

Statement:

A traffic board reads ‘Speed thrills, but kills’.

Assumptions:

1. Drive fast and experience the thrill.
2. Fast driving will attract a heavy fine.

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

Q42. The length of a minor arc is 2/9 of the circumference of the circle. Write the measure of the angle (in degrees) subtended by the centre of the circle.
(a) 50
(b) 80
(c) 60
(d) 30

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Q43. What will be the acceleration produced when a force of 21 N is applied on an object of mass 3 kg?

(a) 0.007ms^(-2)
(b) 0.7ms^(-2)
(c) 7ms^(-2)
(d) 70ms^(-2)

Q44. The sensation of sound persists in the human brain for about:

(a) 1 sec
(b) 0.2 sec
(c) 0.1 sec
(d) 0.5 sec

Q45. _____ is a part of the male reproductive system in plants.

(a) Style
(b) Stigma
(c) Ovary
(d) Stamen

Q46. A conductor having some appreciable resistance is called a _____.

(a) Conductor
(b) Insulator
(c) Resistor
(d) Semi-conductor

Q47. The angle of elevation of the top of a 36 m tall tower from the initial position of a person on the ground was 60°. She walked away in a manner that the foot of the tower, her initial position and the final position were all in the same straight line. The angle of elevation of the top of the tower from her final position was 30°. How much did she walk from her initial position?

(a) 24 m
(b) 24√3 m
(c) 12√3 m
(d) 36√3 m

Q48. How many molecules are present in one mole of water?

(a) 6.02 × 10^(26) molecules
(b) 7.02×10^{23} molecules
(c) 8.02×10^{22} molecules
(d) 6.02×10^{23} molecules

Q49. P, Q and R are channels which discharge solutions A, B, C respectively in a tank. When the tank is empty and all the three channels are opened what is the proportion of the solution C in the tank after 3 minutes, if the channels P, Q and R can fill the tank from empty to full in 30 minutes and 20 minutes and 10 minutes respectively when they are opened one at a time.

(a) 6
(b) 5/11
(c) 5
(d) 6/11

Q50. If $x^2 + kx + k = 0$ has repeated roots, then the value of k will satisfy:

(a) $k < 0$ or $k > 4$
(b) $k = 4$ only
(c) $k = 4$ or $k = 0$
(d) $0 < k < 4$

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Q51. Which of the following metals displaces Iron from Iron Chloride?

(a) Lead
(b) Tin
(c) Silver
(d) Zinc

Q52. 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-third 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-

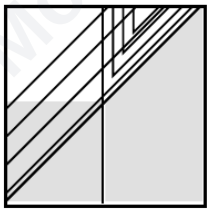
(a) 3 : 1
(b) 1 : 3
(c) 1 : 9
(d) 1 : 2

Q53. At the beginning of the 4^(th) century CE, the Guptas established a small kingdom in _____

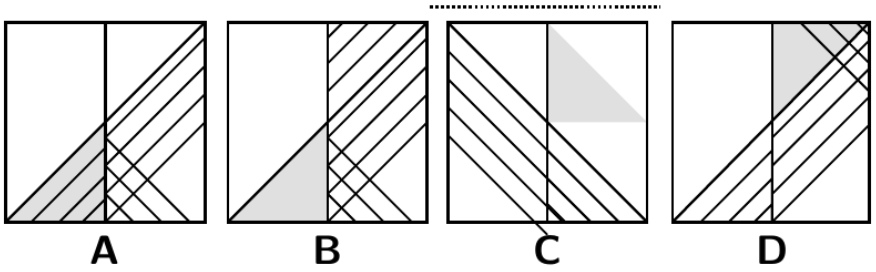
(a) Vatapi
(b) Avadh
(c) Magadh
(d) Malwa

Q54. Choose the correct water image of the problem figure.

Problem Figure



Answer Figures



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

Q55. _____ is a multicellular organism.

(a) Agaricus
(b) Cyanobacteria
(c) Mycoplasma
(d) Paramecium

Q56. Identify the use of the isotope of uranium.

(a) Treatment of cancer
(b) Fuel in airplanes
(c) Treatment of goiter
(d) Fuel in nuclear reactors

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Q57. As of February 2018, who has taken charge as the chairman of the Tata Sons empire, before which he was the CEO of Tata Consultancy Services (TCS)?

(a) N Chandrasekaran
(b) S. Ramadurai
(c) Nandan Nilekani
(d) Bhaskar Bhat

Q58. The Center for Medicare & Medicaid Services (CMS), a federal agency in the USA has an Indian as its current administrator under the Trump regime. Who is she?

(a) Aruna Miller
(b) Seema Verma
(c) Rachel Paulose
(d) Pramila Jayapal

Q59. Parthenocarpy is defined as _____.

(a) Development of root with fertilization
(b) Development of fruit with fertilization
(c) Development of root without fertilization
(d) Development of fruit without fertilization

Q60. Consider the following question and decide whether any of the statements among the given statements are adequate to answer that question.

What is the total number of students in the class?

Statements:

1. Mr X's rank was 15^(th) from the top in the class.
2. Mr X's rank was 26^(th) from the bottom of the class.

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

Q61. The price of a Television is Rs. 14000 inclusive of VAT. If the rate of VAT is 12%, find the basic price of the television.

(a) Rs. 12,000
(b) Rs. 13,000
(c) Rs. 12,500
(d) Rs. 13,500

Q62. Which union minister from the Lok Jana Shakti Party belongs to PM Narendra Modi's Cabinet?

(a) J.P. Nadda
(b) Radha Mohan Singh
(c) Ram Vilas Paswan
(d) Ravi Shankar Prasad

Q63. The smallest number by which 1875 must be divided to obtain a perfect square is:

(a) 5
(b) 2
(c) 7
(d) 3

Q64. Which famous Indian economist joined politics and is now the Finance, Commerce and Industries Minister of the Government of West Bengal?

(a) Avinash Dixit
(b) Sovan Chatterjee
(c) Abhijeet Banerjee

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(d) Amit Mitra

Q65. The number of valence electrons in an atom of Phosphorus is:

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

Q66. Consider the argument and decide which of the given assumptions is/are implicit.

Argument:

A father advised his son that the shortest route between Chennai and Mangalore is via Bengaluru.

Assumptions:

1. Son wishes to go to Mangalore.
2. Father gives advice to everyone.

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

Q67. Mr. X is the only son of Ms. Y's grandfather. If Mr. X has no brothers or sisters and his father is Ms. Y's grandfather, then Mr. X is Ms. Y's _____.

(a) Father-in-law
(b) Uncle
(c) Brother
(d) Father

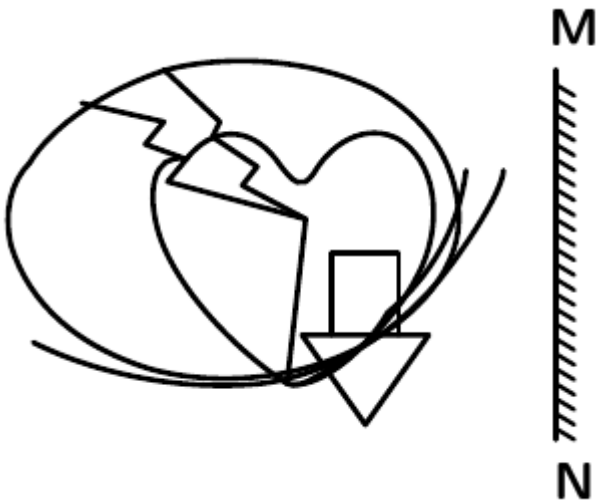
Q68. A unit of power is called a _____.

(a) Watt
(b) Joule
(c) Newton
(d) Pascal

Q69. Delhi is located on the banks of river _____.

(a) Yamuna
(b) Kosi
(c) Gangotri
(d) Yamunotri

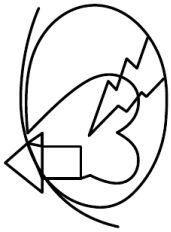
Q70. Select the option that depicts the correct mirror image of the following figure if the mirror is placed at MN.



(a)



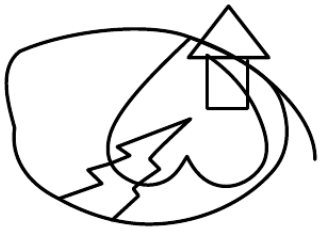
(b)



(c)



(d)

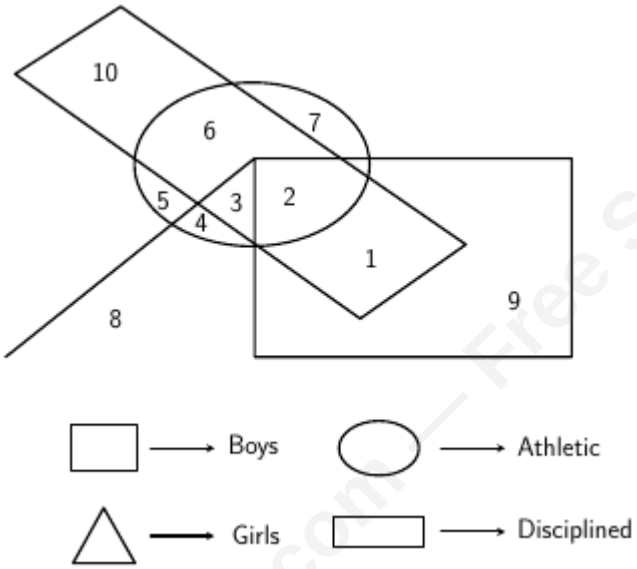


Q71. Which union minister recently launched the NARI portal which focusses on women empowerment?

(a) Uma Bharti
(b) Nirmala Sitharaman
(c) Smriti Irani
(d) Maneka Gandhi

Q72. According to the given Venn diagram, the total number of non-athletic and disciplined boys is ____.

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(a) 28
(b) 1
(c) 20
(d) 10

Q73. Which Malayalam actor received the Special Jury National Award for the Telugu film 'Janatha Garage'?
(a) Prithviraj
(b) Suresh Gopi
(c) Mohanlal
(d) Mammootty

Q74. In a concave mirror when the object is placed at infinity which of the following applies to the image?
(a) Real, inverted image of the same size at the center of curvature (C)
(b) The real, inverted, highly diminished image at the focus
(c) The real, inverted, highly enlarged image at the center of curvature (C)
(d) Real, inverted, diminished image between the center of curvature (C) and principal focus (F)

Q75. A man misses a train by 1 hour if he travels at a speed of 4 kmph, if he had increased his speed to 5 kmph, he would have still missed the train by 24 minutes. At what speed should he have travelled so that he reached the station exactly on time?
(a) 8 kmph
(b) 6 kmph
(c) 10 kmph
(d) 12 kmph

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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