RRB ALP CBT I 30 Aug 2018 Shift 3 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.

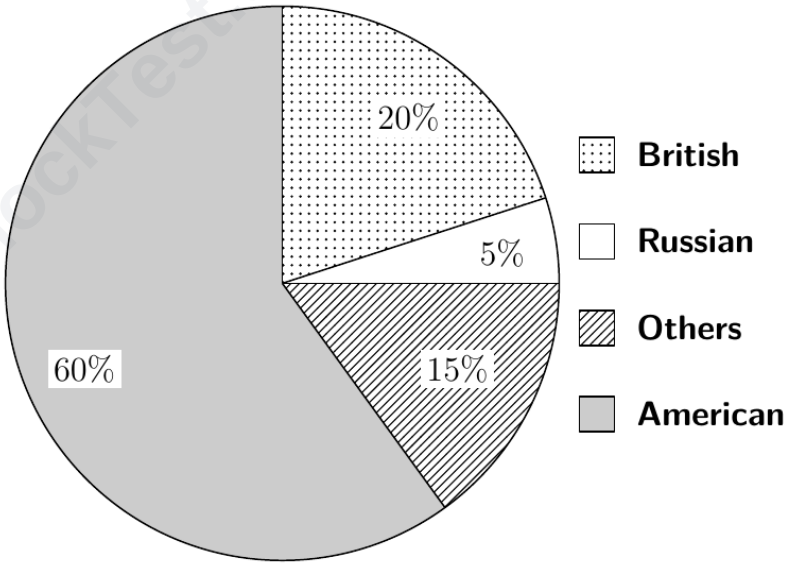
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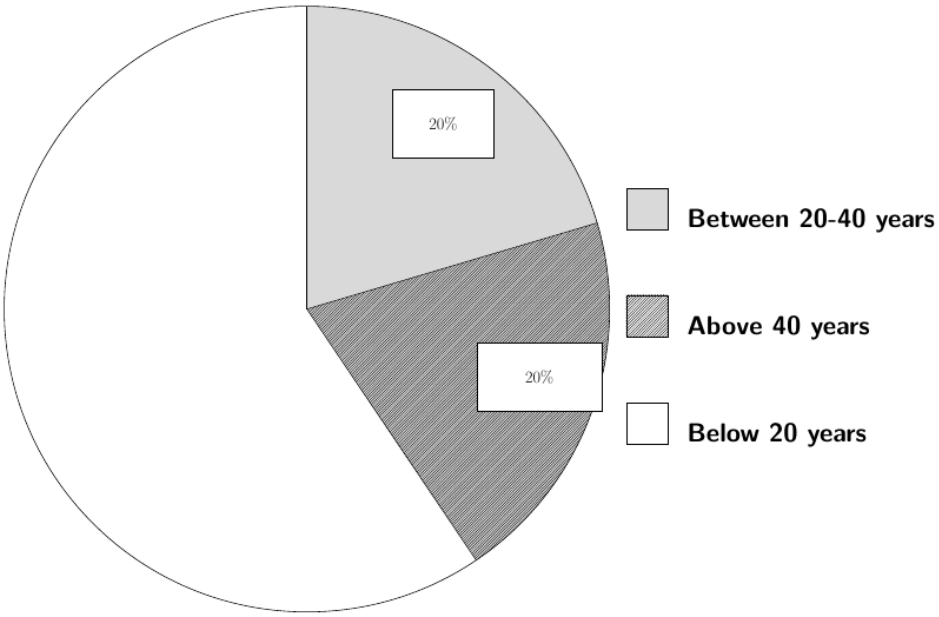
Scan the QR code or click the link to open it.

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STAGE I (CBT I)

Q1. The below figure gives the country wise and age wise distribution of people who visit china for business set up.





If in a given year 500000 visited china, then the number of American nationals who visited at with age group above 40 years is

(a) 50,000

(b) 60,000
(c) 45,000
(d) 55,000

Q2. A sound wave has a frequency of 3.5 kHz and wavelength 0.1 m. How long will it take to travel 700 m?

(a) 1.5 s
(b) 2.0 s
(c) 3.0 s
(d) 1 s

Q3. If X's mother is the only daughter of Y's father, then Y's husband's sister is X's _____.

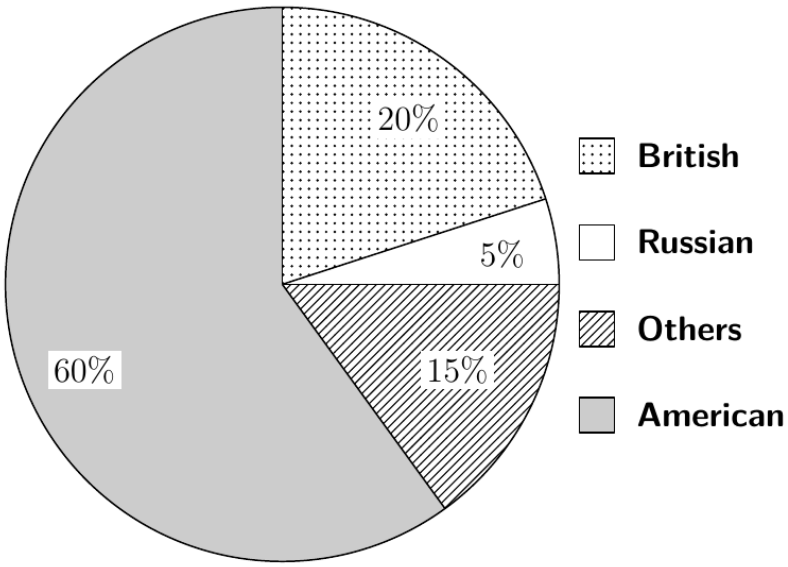
(a) Mother-in-law
(b) Mother
(c) Aunt
(d) Sister

Q4. Solve the following:

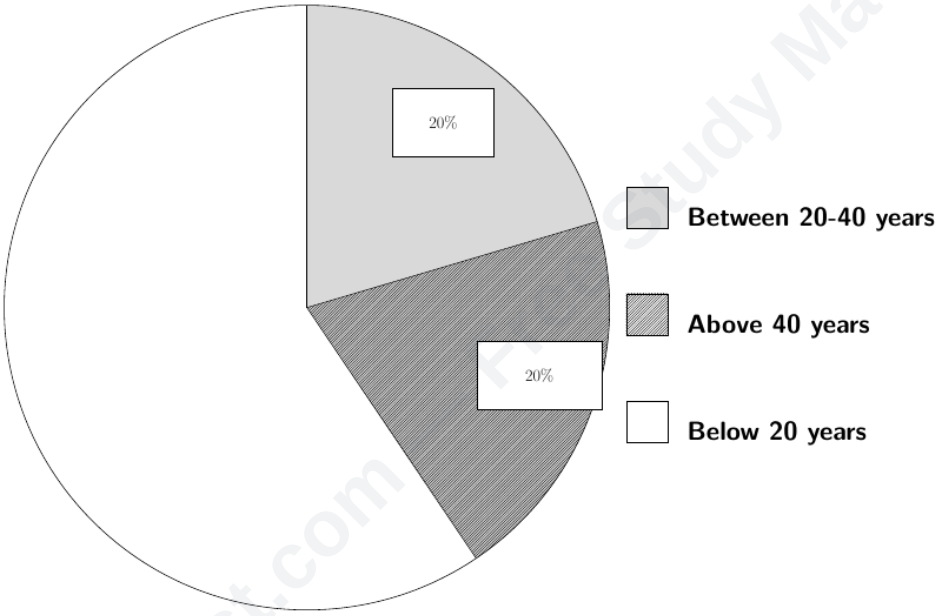
(-6)[40 ÷ {7 - (-3)}] = ?

(a) 24
(b) 60
(c) -60
(d) -24

Q5. The given figures depicts the country-wise and age-wise distribution of people who visit China for business set-up.



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If in a given year, 500,000 people visited China, then the number of American nationals of the age group below 20 years who visited China is:

(a) 2,00,000
(b) 1,90,000
(c) 1,50,000
(d) 1,80,000

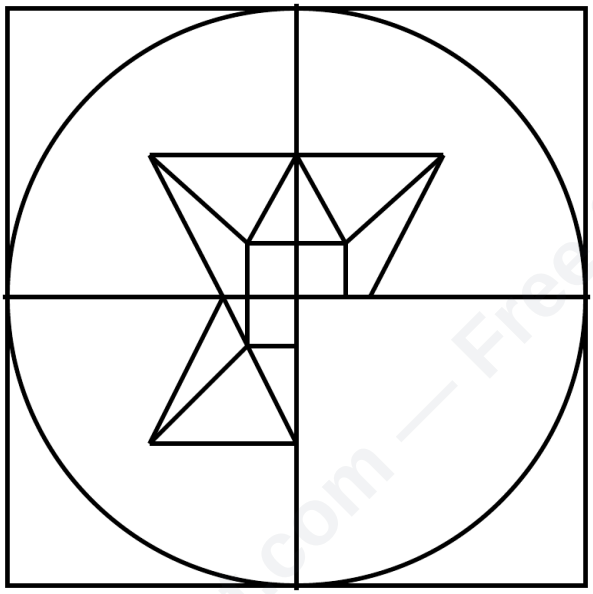
Q6. Mr. X said to Ms. Y, “Your father's wife's sister is my aunt". Ms. Y's daughter is Mr. X's _____.

(a) Cousin
(b) Brother
(c) Niece
(d) Sister

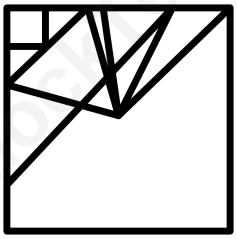
Q7. In a 3-digit number, the hundreds digit is 4 times the units digit and the tens digit is thrice the units digit. The sum of the digits is 8. What is the tens digit in the number?

(a) 6
(b) 3
(c) 9
(d) 4

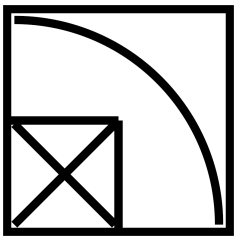
Q8. Select the option that will correctly fit in the blank space in the given figure.



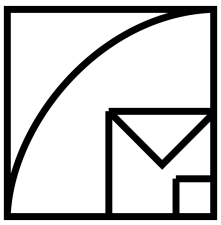
(a)



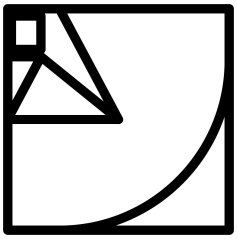
(b)



(c)



(d)



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Q9. Name the autobiography of Sanjay Manjrekar, the former India batsman-turned-commentator, which was launched in Mumbai on 17 January 2018.

(a) 'Playing It My Way'
(b) 'The Definitive Biography'
(c) 'Imperfect'
(d) 'Sunny Days'

Q10. Read the following question and decide which of the given statements is/are sufficient.

How is CHINA coded?

Statements:

1. CHILE is coded as ECIHL.
2. EGYPT is coded as TEYGP.

(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) Either 1 or 2 is sufficient to answer the question.
(d) 1 alone is sufficient while 2 alone is not sufficient to answer the question.

Q11.



The mirror image of the above figure is:

(a)



(b)



(c)



(d)



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Q12. Brajen can paint a wall red in 10 hours, while Ballari can paint the wall completely in 12 hours.

If Brajen and Ballari work alternately for one hour each, starting with Brajen, from the time the wall has just been cemented until it is completely painted red, how many hours will it take to paint the entire wall?

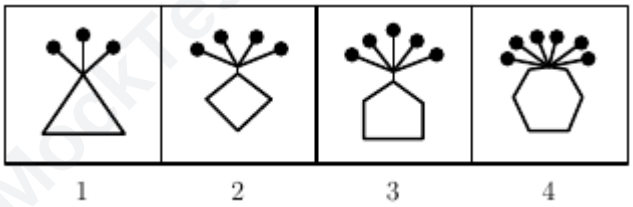
(a) 13
(b) 12
(c))(101/2
(d) 105/6

Q13. A man starts from point 'O' travels 20 km towards East to reach point 'A', turns right and travels 10 km to reach point 'B', turns right and travels 9 km to reach point ‘C’, turns right and travels 5 km to reach point 'D', turns left and travels 12 km to reach point ‘E’ and then turns right and travels 6 km to reach point 'F'.

What is the shortest distance between point 'E' and point 'B'?

(a) √145
(b) √466
(c) √450
(d) 46

Q14. Select the figure that does NOT belong in the following group.



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

Q15. 1 kilowatt hour is the amount of electric energy consumed when 1 kilowatt power is used for 1 hour in an electric circuit. Express it in joules.

(a) 6.3 × 105 J
(b) 6.3 × 106 J
(c) 4.6 × 106 J
(d) 3.6 × 10^6 J

Q16. Qamar gained 12.5% on the resale of a used stereo. If he purchased the item for Rs. 1680, how much did he sell it for?

(a) Rs. 1,900
(b) Rs. 1,890
(c) Rs. 1,880
(d) Rs. 1,910

Q17. Reliance Jio Infocomm Ltd. is planning to launch its own cryptocurrency called:

(a) BitCoin
(b) JioRupee
(c) JioCoin
(d) CryptoCoin

Q18. Identify the venue of India's first Tribal Entrepreneurship Summit held in November 2017.

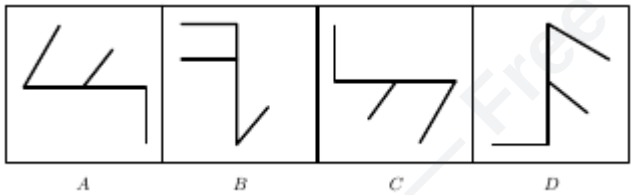
(a) Dantewada, Chhattisgarh
(b) Kutch, Gujarat
(c) Karbi Anglong, Assam
(d) Hyderabad, Telangana

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Q19. A train moving with a uniform speed covers 338 m in 50 s. What is its speed?

(a) 4.76 m/s
(b) 7.76 m/s
(c) 6.76 m/s
(d) 5.76 m/s

Q20. Select the figure that does NOT belong in the following group.



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

Q21. Who is the director of the Filmfare Award-winning movie Dangal starring Aamir Khan?

(a) Nitesh Tiwari
(b) Gautham Vasudev Menon
(c) Karan Johar
(d) Anurag Kashyap

Q22. Pipe A could fill an empty cistern in 18 hours while Pipe B can drain a filled cistern in 30 hours. When the cistern is empty, Pipe A is turned on for an hour and then turned off. Now Pipe B is allowed to drain out water from the cistern for an hour and then turned off. The pipes were alternately left open for an hour each time till the cistern was full. How much time did it take for the cistern to be full?

(a) 45 hours
(b) 86 hours 40 minutes
(c) 90 hours
(d) 86 hours 48 minutes

Q23. A train travelling at constant speed crosses two persons walking in the same direction in 4 seconds and 4.2 seconds, respectively. The first person was walking at the speed of 4.5 km/h while the second was walking at the speed of 6 km/h. What was the speed of the train in km/h?

(a) 42
(b) 36
(c) 32
(d) 40

Q24. S. Somanath, an Indian aerospace engineer and rocket technologist, has taken charge as the new director of:

(a) The ISRO Satellite Centre (ISAC)
(b) Vikram Sarabhai Space Centre (VSSC)
(c) The Auxiliary Propulsion System Unit (APSU)
(d) The Space Applications Centre (SAC)

Q25. All the member of a homologous series can be represented by the same general formula. Choose the INCORRECT formula from among the following.

Alkane - C_nH_(2n+2)

Alkene - C_nH_(2n+1)

Alkyne - C_nH_(2n-2)

(a) Alkane - C_nH_(2n+2) and Alkyne - C_nH_(2n-2)
(b) Alkene - C_nH_(2n+1)
(c) Alkane - C_nH_(2n+2)

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(d) Alkyne - C_nH_(2n-2)

Q26. Read the given statement and decide which of the suggested courses of action logically follow(s) on the basis of the information given in the statement.

Statement:

The question paper had many wrong questions due to which many students failed the examination.

Courses of Action:

1. Re-conduct the examination with the correct question paper.
2. Grace marks should be given for wrong questions.

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

Q27. An object is placed 30 cm before a concave mirror of focal length of 20 cm to get a real image. What will be the distance of the image from the mirror?

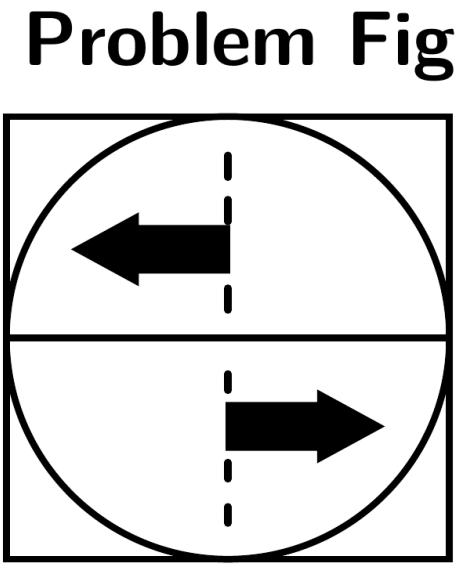
(a) 60 cm
(b) 30 cm
(c) 20 cm
(d) 40 cm

Q28. Which gas is released when bleaching powder is added to water?

(a) Hydrogen
(b) Chlorine
(c) Carbon Monoxide
(d) Carbon Dioxide

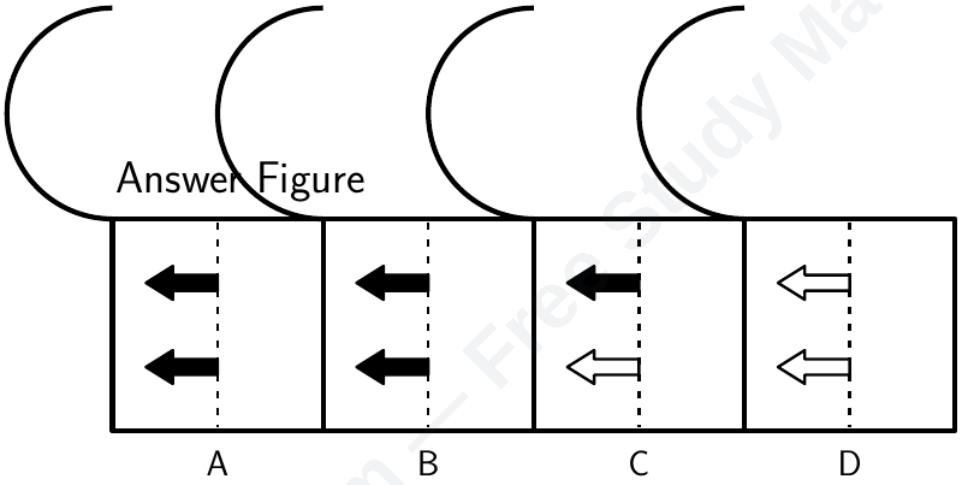
Q29. Select the Answer Figure that depicts the following transparent sheet (Problem Figure) when folded at the dotted line shown.

Problem Figure



Answer Figure

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

Q30. Pointing to X, Y says, “X is the daughter of the only son of my mother” then Y's mother is X's _____.

(a) Aunt
(b) Great grandmother
(c) Grandmother
(d) Mother

Q31. The mean of three numbers is 15. The range of this data set is 8 while the difference between the two smallest numbers is 1. The greatest of the three numbers is:

(a) 18
(b) 20
(c) 24
(d) 22

Q32. Match the following with the correct answer:

(1)	**Work**	**(A)**	**Chemical energy converts into electrical energy**
(2)	Battery	(B)	Sound energy converts into electrical energy
(3)	Power	(C)	Kilowatt
(4)	Microphone	(D)	Joule

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

Q33. Read the following question and decide which of the given statements is/are sufficient.

Question:

Is Y > 0?

Statements:

1. X + Y > 0

2. X - Y > 0

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

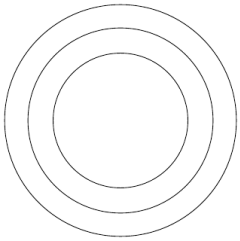
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(c) Neither 1 nor 2 is sufficient to answer the question.

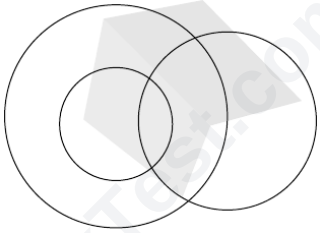
(d) 2 alone is sufficient while 1 alone is not sufficient to answer the question.

Q34. The diagram that represent rational numbers, irrational number and real number is:

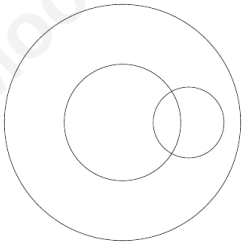
(a)



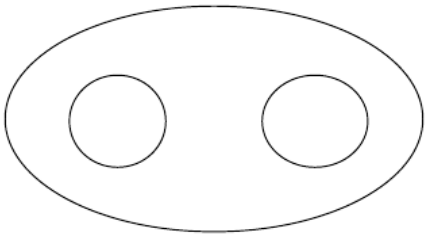
(b)



(c)



(d)



Q35. Name the Sikkim Chief Minister who was honoured with the Sustainable Development Leadership Award by The Energy and Resources Institute.

(a) Nar Bahadur Bhandari

(b) Sanchaman Limboo

(c) Pawan Chamling

(d) B. B. Gurung

Q36. What is the compound formed when Ag^+ and Cl^- combine?

(a) Argon Chlorate

(b) Argon Chloride

(c) Silver Chloride

(d) Silver Chlorate

Q37. Which of the following statements is INCORRECT?

(a) Lemon contains citric acid

(b) The basic nature of Sodium Hydroxide (NaOH) is due to the presence of sodium ions.

(c) Nonmetallic oxides are acidic in nature

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(d) Phenolphthalein turns pink in soap solution.

Q38. Pipe A can fill an empty cistern in 6 hours while along with Pipe B it can fill it up in 4 hours. Only Pipe B is on for an hour after which Pipe A is also turned on. How much time will it take in all to fill up the cistern?

(a) 4 hours 40 minutes
(b) 4 hours
(c) 4 hours 25 minutes
(d) 4 hours 15 minutes

Q39. The HCF of 96, 156 and 60 is:

(a) 48
(b) 12
(c) 4
(d) 3

Q40. A man starts from point ‘O’, travels 20 km towards East to reach point ‘A’, turns right and travels 10 km to reach point 'B', turns right and travels 9 km to reach point 'C', turns right and travels 5 km to reach point 'D', turns left and travels 12 km to reach point 'E' and then turns right and travels 6 km to reach point 'F'.

In which direction is the man facing now?

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

Q41. The breakdown of glucose to pyruvate takes place in the _____ during energy production.

(a) mitochondria
(b) cytoplasm
(c) nucleus
(d) endoplasmic reticulum

Q42. Which of the following numbers is divisible by 9?

(a) 54321
(b) 87654
(c) 56765
(d) 47862

Q43. For whom has the Union government launched the Accessible E-Library, ‘Sugamya Pustakalaya' in New Delhi under Prime Minister's Sugamya Bharat Abhiyan?

(a) Women
(b) Men
(c) Transgender
(d) Visually Impaired

Q44. If the second half of the given series is reversed, then what will be the eighth term from the right?

9$YX8N6OLBUJZT@1QFD%

(a) D
(b) 1
(c) Q
(d) F

Q45. Consider the given statement to be true and decide which of the assumptions is implicit from the statement.

Statement:

The price of onion and tomato had remained unchanged for the past 2 weeks in Delhi only.

Assumptions:

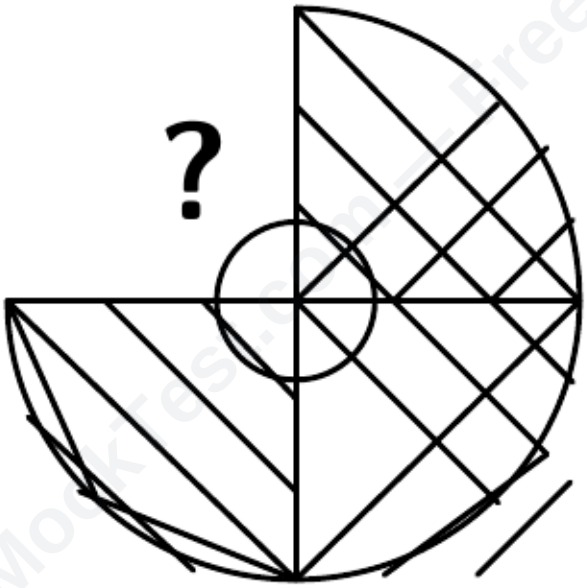
1. Onion and tomato price had changed elsewhere in this 2 weeks.

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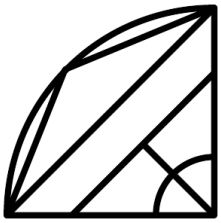
2. The prices of onion and tomato 2 weeks ago were different from their present prices.

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

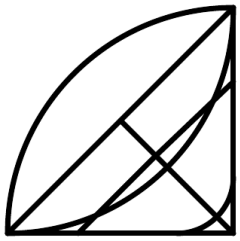
Q46. Select the option that will correctly fit in the blank space in the given figure.



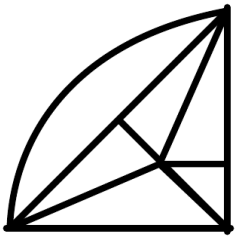
(a)



(b)

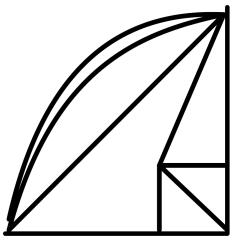


(c)



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(d)



Q47. The organs that have the same basic structure (or same basic design) but different functions are called:

(a) analogous organs
(b) biogenetic law
(c) fossils
(d) homologous organs

Q48. A certain household has consumed 320 units of energy during a month. How much energy is this in joules?

(a) 10 × 10^5 J
(b) 9 × 10^8 J
(c) 1152 × 10^6 J
(d) 5 × 10^8 J

Q49. If cot α = √2 + 1, then the value of tan α - cot α = ?

(a) 2√2
(b) -2
(c) 1 - √2
(d) √2 - 1

Q50. Brass is an alloy made of:

(a) Copper and Tin
(b) Copper and Zinc
(c) Copper and Aluminum
(d) Copper and Iron

Q51. In Δ ABC, AB = 10 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) 12.5 cm
(b) 10cm
(c) 12 cm
(d) 10.5 cm

Q52. Who among the following is India's left-arm spinner who is the lone cricketer to feature in both, the ODI and T20 teams of the year announced by the ICC.

(a) Neetu David
(b) Ekta Bisht
(c) Anju Jain
(d) Mithali Raj

Q53. Jeena is 24 years younger than her mother. After eight years her mother's age will be 5/3 times her age. What is Jeena's present age (in years)?

(a) 28
(b) 22
(c) 26
(d) 24

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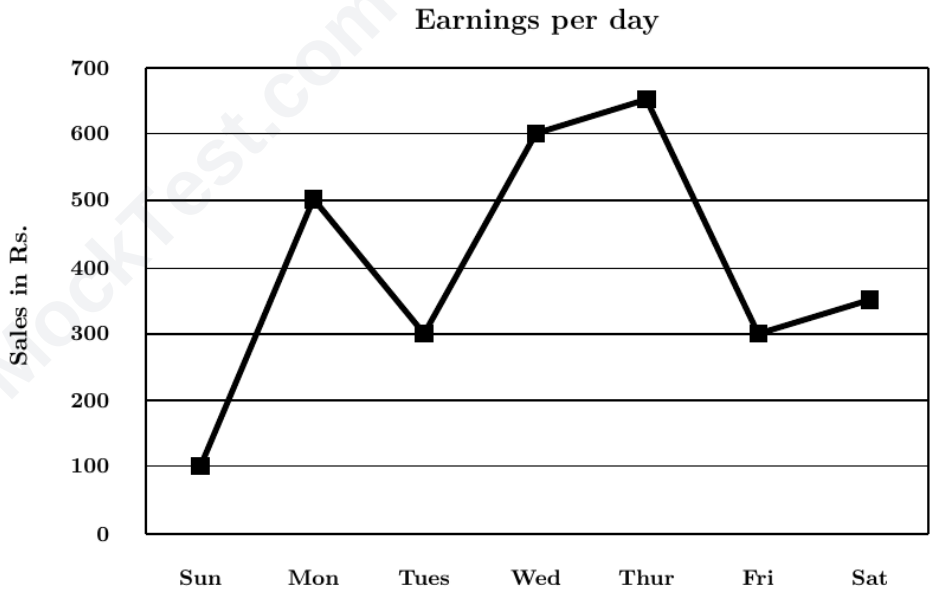
Q54. Which of the following is the largest sized atom?

(a) Si
(b) Al
(c) P
(d) S

Q55. The ratio of weights of Jaya and Vijaya is 4 : 5. If the sum of their weights is 72 kg, then what is the weight of Vijaya?.

(a) 32 kg
(b) 42 kg
(c) 34 kg
(d) 40 kg

Q56.



Earnings per day -
Sales in Rs.
Sunday Monday Tuesday Wednesday Thursday Friday Saturday
Based on the given graph, the total money earned (in) in the week is:

(a) 3,500
(b) 2,800
(c) 3,000
(d) 2,600

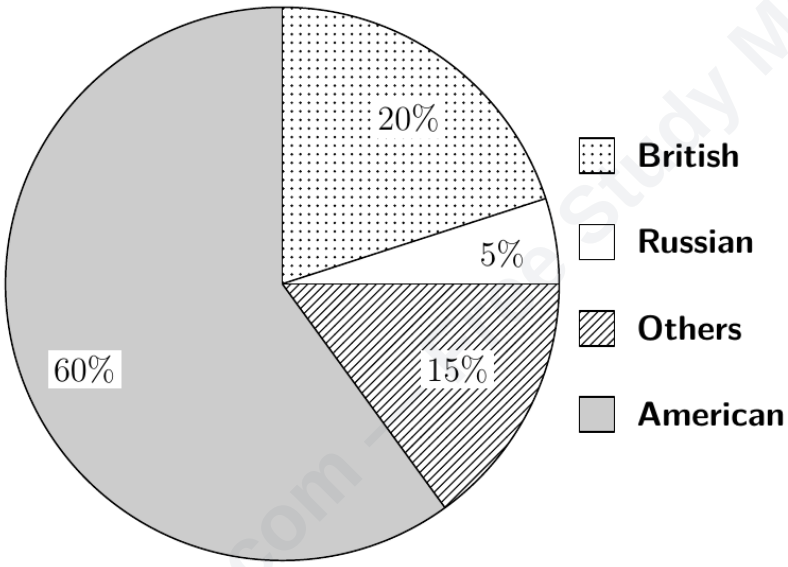
Q57. Select the pair of words from the given options that shares the same relationship as the following word pair.

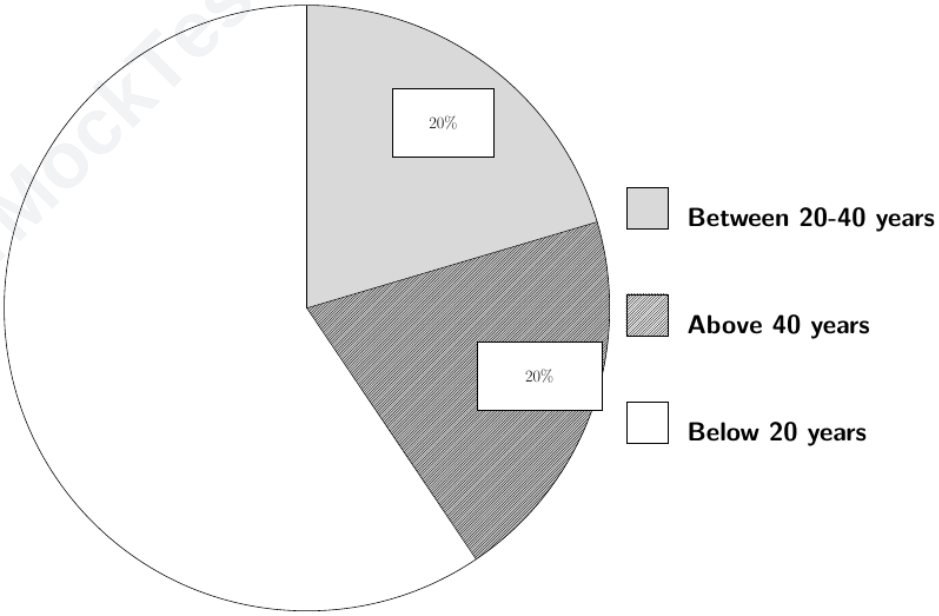
Teeth : Toothpaste

(a) Face : Powder
(b) Button : Jeans
(c) Hair : Shampoo
(d) Foam : Soap

Q58. The given figures depict the country-wise and age-wise distribution of the people who visit China for business setup.

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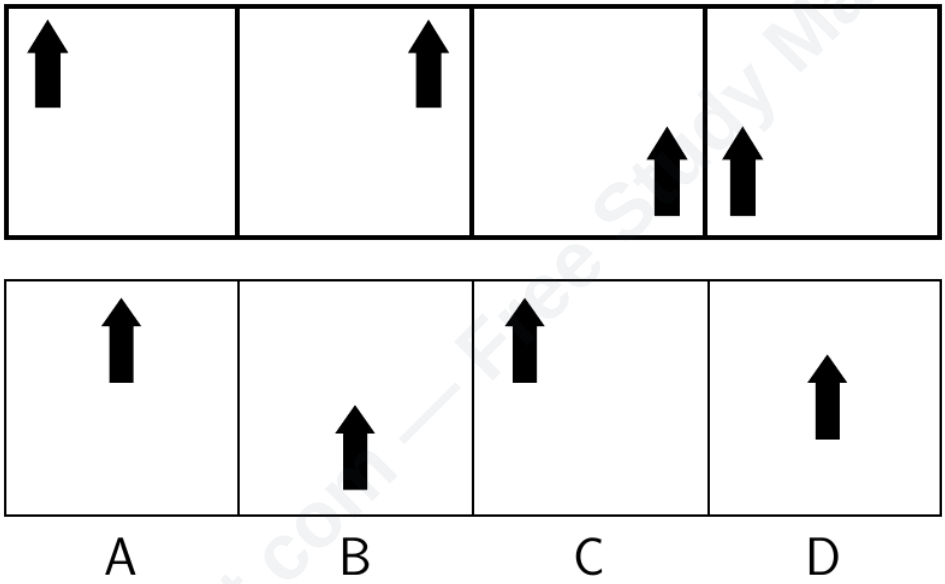
If in a given year, 500,000 people visited China, then the number of British nationals in the age group between 20 and 40 years who visited China is:

(a) 25,000
(b) 30,000
(c) 40,000
(d) 20,000

Q59. Which of the following statements is most appropriate for transition elements?

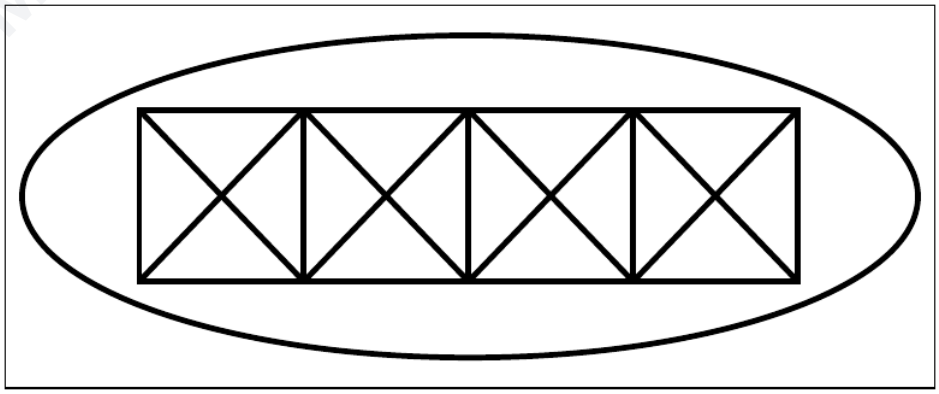
(a) Three of their outermost shells are incomplete.
(b) Their outermost shell is incomplete.
(c) Two of their outermost shells are incomplete.
(d) They have eight electrons in their outermost shell.

Q60. Select the option that will come next in the following figure series.



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

Q61. The number of squares in the above picture is :



(a) 8
(b) 7
(c) 4
(d) 5

Q62. At 8% simple interest per annum a sum of money becomes Rs. 608 in 31/2 years. What was the sum invested?

(a) Rs. 450
(b) Rs. 475
(c) Rs. 440
(d) Rs. 460

Q63. Fertilisation results in the formation of a/an:

(a) Zygote
(b) Gamete
(c) Ovary
(d) Germ cell

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Q64. Neetu is 10 years elder to Meetu, and Meetu is 7 years elder to Geetu. If the sum of their ages is 48 years, what is Neetu's age (in years)?

(a) 22
(b) 27
(c) 28
(d) 25

Q65. A ball thrown up vertically returns to the ground after 10 second. Find the velocity with which it was thrown up? (if g = 10 m/s^2).

(a) 120 m/s
(b) 50 m/s
(c) 600 m/s
(d) 100 m/s

Q66. If a rope 84 m long is divided in the ratio 7 : 5, then the length of the longer piece (in m) is:

(a) 49
(b) 42
(c) 50
(d) 45

Q67. Which of the following is NOT a simple permanent tissue?

(a) Collenchyma
(b) Xylem
(c) Parenchyma
(d) Sclerenchyma

Q68. Which of the numbers given below is the square root of 16384?

(a) 128
(b) 122
(c) 132
(d) 118

Q69. Which of the following numbers is composite?

(a) 51
(b) 41
(c) 61
(d) 31

Q70. In which country was Marie Antoinette, the last queen of France, born?

(a) Italy
(b) Greece
(c) England
(d) Austria

Q71. The mass number of an isotope of an element is 298. If its nucleus has 196 neutrons, what is its atomic number?

(a) 196.0
(b) 298.0
(c) 102.0
(d) 494.0

Q72. In which modern Indian state is the areas of Konkan, Marathwada and Vidarbha located?

(a) Gujarat
(b) Maharashtra
(c) Madhya Pradesh
(d) Karnataka

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Q73. What is the molecular formula of Calcium Phosphate?

(a) Ca(PO4)2
(b) Ca3(PO4)3
(c) Ca3(PO4)2
(d) CaPO4

Q74. If the ratio of the corresponding sides of two similar triangles is 2 : 3, then the ratio of their corresponding altitudes is

(a) 2 : 3
(b) 16 : 81
(c) 4 : 9
(d) 3 : 2

Q75. If the cost of 157 litre of oil is Rs. 29763.65, then what is the cost per litre (rounded off to two decimal places)?

(a) Rs. 170.08
(b) Rs. 182.06
(c) Rs. 178.31
(d) Rs. 189.58

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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