

Directions (1-2): complete the series from given responses:

Q1. 33, 28, 24, ?, 19, 18

- (a) 20 (b) 21
(c) 22 (d) 23

Q2. 1, 2, 4, 3, 9, 4, 16, 5, ?, ?

- (a) 6, 22 (b) 21, 9
(c) 25, 6 (d) 30, 8

Q3. Select the related word from given alternatives

House : Rent :: Capital : ?

- (a) Interest (b) Investment
(c) Profit (d) wages

Q4. Vinod introduces Vishal as the son of the only brother of his father's wife. How is Vinod related to Vishal?

- (a) Cousin (b) Brother
(c) Son (d) Uncle

Q5. In a family Mr. Prakash has his wife and his two married brothers of whom one has two children and another has none. How many members are there in the family?

- (a) 12 (b) 8
(c) 6 (d) 10

Q6. Find the odd number pair from the given responses

- (a) 9, 36, 81 (b) 32, 64, 85
(c) 55, 135, 165 (d) 35, 63, 78


Q7. From the given alternative words select the word which can be formed using the letters of the given word

SOMNAMBULISM

- (a) NAMES (b) BASAL
(c) SOUL (d) BIOME

Q8. Shan is 55 years old, Sathian is 5 years junior to Shan and 6 years senior to Balan. The youngest brother of Balan is Devan and he is 7 years junior to him. So what is the age difference between Devan and Shan ?

- (a) 18 years (b) 15 years
(c) 13 years (d) 7 years



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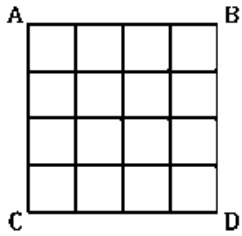
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Q9. How many times are the hands of a clock at right angle in a day?

- (a) 22 (b) 24
(c) 44 (d) 48

Q10. How many squares are there in ABCD?



- (a) 31 (b) 30
(c) 32 (d) 29

Q11. Temple is 12 km towards east of Rohan's house. His school is 5 km south of Temple. What is the shortest distance between Rohan's house and school?

- (a) 16 km (b) 17 km
(c) 12 km (d) 13 km

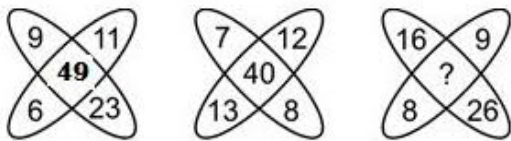
Q12.

20	30	12
3	4	8
80	?	116

- (a) 120 (b) 60
(c) 100 (d) 140



Q13. Find the missing number from the given responses in the following question

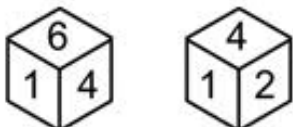


- (a) 52 (b) 42
(c) 59 (d) 17

Q14. If TRAIN is written as RTANI. How will ADDED be written?

- (a) DAAED (b) DAADE
(c) DADED (d) DADDE

Q15. Two positions of a dice/cube are given below. Based on it, find out which number is found opposite to number 2?

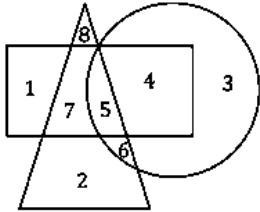


- (a) 1 (b) 4
(c) 6 (d) 3

Q16. Four girls and four boys are sitting in a square facing the centre. They are sitting one each at the corners and one each at the mid-points of the sides of the square. Madhu is sitting diagonally opposite to Usha who is to Geetha's right. Roy is next to Geetha and opposite to Gopi who is on Bose's Left. Suma is not on Madhu's right but opposite to Prema. Who is opposite to Bose ?

- (a) Geetha (b) Prema
(c) Suma (d) Madhu

Q17. Write the number of space enclosed by rectangle and circle but not by triangle.



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

Q18. $N \times O : 14 \times 15 :: G \times S : ?$

- (a) 5×17 (b) 15×16
(c) 6×18 (d) 7×19

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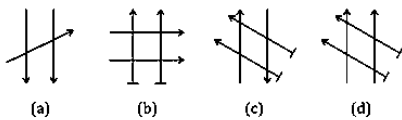
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Q19. While the group photo of a family was taken, the father was found to be sitting to the left of the son and right to the grandfather. Mother was sitting to the right of her daughter but left to grandfather. Who is occupying the central place ?

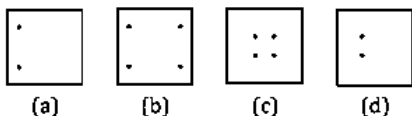
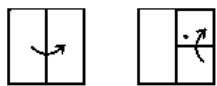
- (a) Son (b) Grandfather
(c) Father (d) Mother

Q20. Select the related figure from the answer figure from the answer figure



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

Q21. The paper is folded as shown in the given figures and a hole is made. When opened how will it appear. Choose from the given response



- (a) a (b) b
(c) c (d) d

Q22. From the given alternatives words select the word which CANNOT be formed using the letters of the given word.

RECOMMENDATION

- (a) MEDIANE (b) MEDICINE
(c) COMMAND (d) REMINDE

Q23. Select the set of symbols which can be fitted correctly in the equation.

$$8 _ 4 _ 2 _ 6 _ 3 = 32$$

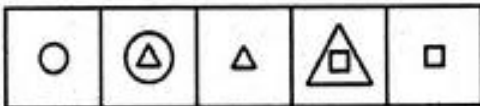
- (a) $\times, -, +, \div$ (b) $+, \times, \div, -$
(c) $+, \div, \times, -$ (d) $-, \times, \div, +$

Q24. In a row of boys, Srinath is 7th from the left and Venkat is 12th from the right. If they interchange their positions. Srinath becomes 22nd from the left. How many boys are there in the row?

- (a) 19 (b) 31
(c) 33 (d) 34

Direction (25): Select a figure from amongst the Answer Figures which will continue the same series as established by the five Problem Figures

Q25. Question Figure:



- (A) (B) (C) (D) (E)

Answer Figure:



- (1) (2) (3) (4) (5)

- (a) 1 (b) 5
(c) 3 (d) 4

Q26. Who was the ruler of Delhi when Ahmad Shah Abdali defeated the Marathas in the third Battle of Panipat in 1761?

- (a) Alamgir I (b) Muhammad Shah
(c) Jahandar Shah (d) Shah Alam II

Q27. Under which article the President of India can be removed by the process of impeachment

- (a) Article 79 (b) Article 76
(c) Article 57 (d) Article 61

Q36. The law of scarcity:

- (a) does not apply to rich, developed countries.
- (b) applies only to the less developed countries.
- (c) implies that consumers' wants will be satisfied in a socialistic system.
- (d) implies that consumers wants will never be completely satisfied

Q37. Duncan Passage is located between

- (a) South and Little Andaman
- (b) North and South Andaman
- (c) North and Middle Andaman
- (d) Andaman and Nicobar

Q38. The Sadbhavana Diwas or Harmony Day is celebrated nationally across India on _____.

- (a) 20 August
- (b) 22 August
- (c) 23 July
- (d) 24 August

Q39. Solder is an alloy of

- (a) tin and lead
- (b) tin and copper
- (c) tin, copper and zinc
- (d) tin, lead and zinc

Q40. Which provision relating to the fundamental rights is directly related to the exploitation of children?

- (a) Article 17
- (b) Article 19
- (c) Article 23
- (d) Article 24

Q41. 'PoornaSwaraj' (Complete Independence) was declared to be the goal of the Indian National Congress in its Session of

- (a) Lucknow, 1916
- (b) Lahore, 1929
- (c) Tripuri, 1939
- (d) Lahore, 1940

Q42. Which gas is responsible for the swelling of bread?

- (a) Oxygen
- (b) Carbon monoxide
- (c) Ammonia
- (d) Carbon dioxide

Q43. Which of the following is a rich source of Vitamin B-12?


- (a) Cashew nut
- (b) Milk
- (c) Apple
- (d) Watermelon

Q44. BCG vaccination (Bacillus CalmetteGuerine) is injected to get immunity from—


- (a) polio
- (b) cholera
- (c) small pox
- (d) tuberculosis

Q45. The item "Education" belongs to the _____

- (a) Concurrent List
- (b) Central list
- (c) State list
- (d) All of the above



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Q46. Food cans are coated with tin and not with zinc because
(a) zinc is costlier than tin (b) zinc has a higher melting point than tin
(c) zinc is more reactive than tin (d) zinc is less reactive than tin

Q47. Which of the following prevents bleeding of gums?
(a) Ascorbic acid (b) Vitamin B
(c) Nicotinamide (d) Thiamine

Q48. The Nagarjunasagar dam is constructed on the river?
(a) Krishna (b) Chambal
(c) Kosi (d) Sutlej

Q49. Match the following

A. Red blood cells	1. Leucocytes
B. White blood cells	2. Erythrocytes
C. Platelets	3. Thrombocytes

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

Q50. Who is the Present Chairman of NITI Ayog?
(a) Rajiv Kumar (b) ArvindPanagariya
(c) NarendraModi (d) ArunJaitley

Q51. The value of $\tan 1^\circ \tan 2^\circ \tan 3^\circ \dots \tan 89^\circ$ is:
(a) 1 (b) 2
(c) undefined (d) 0

Q52. A can do as much work as B and C together can do. A and B can together do a piece of work in 9 hours 36 minutes and C can do it in 48 hours. The time (in hours) that B needs to do the work alone, is:
(a) 18 (b) 24
(c) 30 (d) 12

Q53. The batting average for 30 innings of a cricket player is 40 runs. His highest score exceeds his lowest score by 100 runs. If these two innings are not included, the average of the remaining 28 innings is 38 runs. The lowest score of the player is :
(a) 15 (b) 18
(c) 20 (d) 12

Q54. An article was sold at 16% gain. Had it been sold for Rs. 200 more, the gain would have been 20%. Then the cost price of the article is :
(a) Rs. 5000 (b) Rs. 4800
(c) Rs. 4500 (d) Rs. 5200

Q55. From the top of a hill 200 m high, the angle of depression of the top and the bottom of a tower are observed to be 30° and 60° . The height of the tower is (in m):

- (a) $\frac{400\sqrt{3}}{3}$ (b) $166\frac{2}{3}$
 (c) $133\frac{1}{3}$ (d) $200\sqrt{3}$

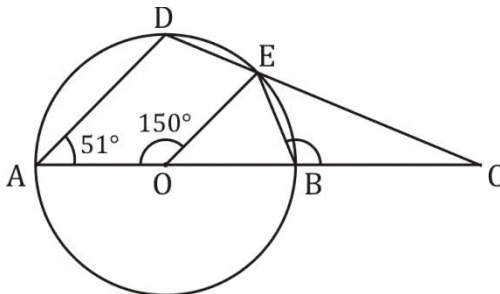
Q56. Triangle PQR circumscribes a circle with centre O and radius r cm such that $\angle PQR = 90^\circ$. If PQ = 3 cm, QR = 4 cm, then the value of r is :

- (a) 2 (b) 1.5
 (c) 2.5 (d) 1

Q57. Water flows at the rate of 10 metres per minute from a cylindrical pipe 5 mm in diameter. How long it take to fill up a conical vessel whose diameter at the base is 30 cm and depth 24 cm ?

- (a) 28 minutes 48 seconds (b) 51 minutes 12 seconds
 (c) 51 minutes 24 seconds (d) 28 minutes 36 seconds

Q58. In the following figure, AB be diameter of a circle whose centre is O. If $\angle AOE = 150^\circ$, $\angle DAO = 51^\circ$ then the measure of $\angle CBE$ is :



- (a) 115° (b) 110°
 (c) 105° (d) 120°

Q59. In a big garden 60% of the trees are coconut trees, 25% of the number of coconut trees are mango trees and 20% of the number of mango trees are apple trees. If the number of apple trees are 1500, then the number of trees in the garden is :

- (a) 48000 (b) 50000
 (c) 51000 (d) 45000

Q60. If 50% of $(P - Q) = 30\%$ of $(P + Q)$ and $Q = x\%$ of P. Then the value of x is :

- (a) 30 (b) 25
 (c) 20 (d) 50

Q61. If $x = \frac{\sqrt{3}-\sqrt{2}}{\sqrt{3}+\sqrt{2}}$ and $y = \frac{\sqrt{3}+\sqrt{2}}{\sqrt{3}-\sqrt{2}}$, then the value of $x^3 + y^3$ is:

- (a) 950 (b) 730
 (c) 650 (d) 970

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Q62. In a triangle ABC, BC is produced to D so that $CD = AC$. If $\angle BAD = 111^\circ$ and $\angle ACB = 80^\circ$, then the measure of $\angle ABC$ is :

- (a) 31° (b) 33°
(c) 35° (d) 29°

Q63. If the volumes of two right circular cones are in the ratio 4 : 1 and their diameters are in the ratio 5 : 4 then the ratio of their heights is :

- (a) 25 : 16 (b) 25 : 64
(c) 64 : 25 (d) 16 : 25

Q64. The proportion of acid and water in three samples is 2 : 1, 3 : 2 and 5 : 3. A mixture containing equal quantities of all three samples is made. The ratio of acid and water in the mixture is :

- (a) 120 : 133 (b) 227 : 133
(c) 227 : 120 (d) 133 : 227

Q65. If x runs are scored by A, y runs by B and z runs by C, then $x : y = y : z = 3 : 2$. If total number of runs scored by A, B and C is 342, the runs scored by each would be respectively ?

- (a) 144, 96, 64 (b) 162, 108, 72
(c) 180, 120, 80 (d) 189, 126, 84

Q66. Rs. 900 is divided among A, B, C; the division is such that $\frac{1}{2}$ of A's money = $\frac{1}{3}$ of B's money = $\frac{1}{4}$ of C's money. Find the amount (in Rs.) received by A, B, C.

- (a) 300, 400, 200 (b) 350, 450, 100
(c) 200, 300, 400 (d) 400, 150, 350

Q67. A train goes from Ballygunge to Sealdah at an average speed of 20 km/hour and comes back at an average speed of 30 km/hr. The average speed of the train for the whole journey is

- (a) 27 km/hr (b) 26 km/hr
(c) 25 km/hr (d) 24 km/hr

Q68. Find the sum of

$$\left(1 - \frac{1}{n+1}\right) + \left(1 - \frac{2}{n+1}\right) + \left(1 - \frac{3}{n+1}\right) + \dots + \left(1 - \frac{n}{n+1}\right)$$

- (a) n (b) $\frac{1}{2}n$
(c) $(n+1)$ (d) $\frac{1}{2}(n+1)$

Q69. $\log(90^2 - 60^2)$ is equal to

- (a) $\log 30$ (b) $2 \log 30$
(c) $\log 90 + \log 50$ (d) $\log 90 + \log 60$

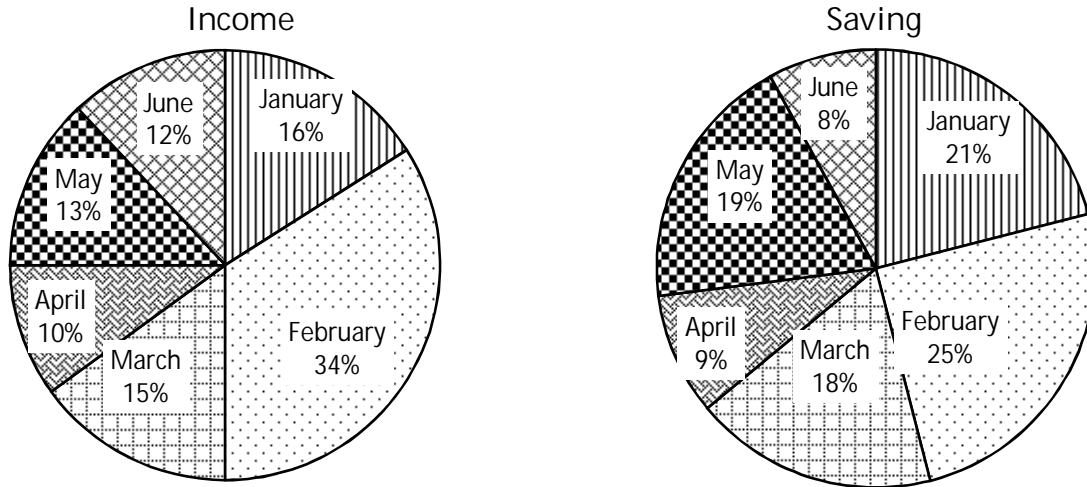
Q70. What is the probability of getting a sum of 7 if two dice are rolled together.

- (a) $\frac{1}{2}$ (b) $\frac{1}{3}$
(c) $\frac{1}{6}$ (d) $\frac{1}{9}$

Q71. In how many ways letter of CONVERT can be arrange if both vowel come together.

- (a) $5! \times 2!$ (b) $6! \times 2!$
 (c) $3! \times 5!$ (d) $\frac{7!}{2!}$

Directions (72-75): Two pie charts are given below, first one is showing distribution of income of a person during 6 months of a year and the other pie chart shows distribution of saving in 6 different months of the same year. Read the data carefully and answer the question given below.



Total Income = Rs. 60,000 Rs.

Total Saving = Rs. 20,000 Rs.

Q72. Find expenditure of month January and February together.

- (a) Rs. 20800 (b) Rs. 21800
 (c) Rs. 19800 (d) Rs. 17800

Q73. Expenditure of person is maximum in which month.

- (a) January (b) March
 (c) April (d) February

Q74. Expenditure of the person in March is what percent of income of April month.

- (a) 90% (b) 70%
 (c) 75% (d) 85%


Q75. Find ratio of average income and average saving of the person

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


Directions (76-77): In these questions, four alternatives are given for the idiom/phrase given in bold in the sentence. Choose the alternative which best expresses the meaning of the idiom/phrase given in bold.

Q76. Caesar was done to death by the conspirators.

- (a) attacked (b) removed
 (c) eliminated (d) murdered



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Q77. His letters to his ward speak volumes for his forbearance and good sense.

- (a) show indications of (b) speak ill of
(c) are intended to impress (d) serve as strong testimony

Directions (78): In these questions, out of the four alternatives, choose the one which best expresses the meaning of the word given in bold.

Q78. Slipshod

- (a) vulgar (b) careless
(c) common place (d) retaliatory

Directions (79): In these questions, out of the four alternatives choose the word opposite in meaning to the word given in bold.

Q79. Concur

- (a) disagree (b) disappear
(c) disarrange (d) discourage

Directions (80-81): In the following questions, out of the four alternatives choose the one which can be substituted for the given words/sentence.

Q80. A man who wastes his money on luxury.

- (a) Extempore (b) Thrifty
(c) Extravagant (d) Promiscuous

Q81. A common place remark

- (a) Verbatim (b) Postulate
(c) Platitude (d) Niche

Directions (82): In these questions, four words are given out of which only one is correctly spelt. Find that correctly spelt word

Q82.

- (a) Dansuese (b) Danseuse
(c) Danseus (d) Densuace

Directions (83-84): In these questions, sentences are given with blanks to be filled in with an appropriate word(s). Four alternatives are suggested for each question. Choose the correct alternative out of the four alternatives.

Q83. All the people involved in the issue feel a great _____ to his suggestion.

- (a) contradiction (b) adherence
(c) difference (d) repugnance

Q84. Dr. Sharma concluded his Speech_____ stressing on Buddha's teachings of the importance of charity.

- (a) by (b) with
(c) at (d) in

Directions (85-87): In these questions, read each sentence to find out whether there is any error in it. The error, if any, will be in one part of the sentence. The number of that part is the answer. If there is no error, the answer is (D). (Ignore errors of Punctuation, if any.)

Q85. The decline of his moral was caused by a lot of factors that were once fascinating to him.

- (a) The decline of his moral (b) was caused a lot of factors that
(c) were once fascinating to him. (d) No error

Q86. I worked as medical representative for eight months.

- (a) I worked (b) as medical representative
(c) for eight months (d) no error

Q87. I already had told you about his deplorable condition.

- (a) I already had told (b) you about his
(c) deplorable condition (d) no error

Directions: (88-89): In these questions, a sentence or a part of sentence is underlined. Below are given alternatives to the underlined part which may improve the sentence. Choose the correct alternative. In case no improvement is needed, your answer is (D)

Q88. I am tired as I am working since 7 O' clock in the morning.

- (a) I was working (b) I had been working
(c) I have been working (d) no improvement

Q89. A lot depends on your early brought up in the family.

- (a) bringing (b) bring up
(c) upbringing (d) No improvement

Directions (90-91): In the following questions, the 1st and the last parts of the sentence are numbered 1 and 6. The rest of the sentence is split into four parts and named P, Q, R and S. These four parts are not given in their proper order. Read the sentence and find out which of the four combinations is correct. Then find the correct answer.

Q90. 1. The man whom I hit on the head

P. says that when he meets me

Q. on my way back home from school

R. on the road

S. he will beat me

6. till I cry for mercy.

- (a) QPRS (b) RQSP
(c) PQRS (d) SRPQ

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Q91. 1. The two men who were following
P. and who were separated from the tigress by the rock
Q. when they saw me stop
R. a few yards behind me
S. stood still
6. and turn my head

- (a) PSQR (b) QSPR
(c) RPSQ (d) SQRP

Directions (92-93): A sentence has been given in Active voice/Passive Voice. Out of the four alternatives suggested, select the one which best expresses the same sentence in Passive/Active voice and mark your answer in the Answer-sheet.

Q92. She was advised 15 days rest after her surgery.

- (a) The doctor was advised her 15 days' rest after her surgery.
(b) The doctor has advised her 15 days rest after her surgery.
(c) The doctor advised her 15 days' rest after her surgery.
(d) The doctor had advised her 15 days' rest after her surgery.

Q93. When did he return my books?

- (a) When were my books returned by him?
(b) When will my books be returned by him?
(c) When has he returned my books?
(d) When are my books returned by him?

Directions (94-95): In each of the following questions, a sentence has been given in Direct/Indirect Speech. Out of the four alternatives suggested select the one which best expresses the same sentence in Indirect Direct Speech.

Q94. He said to me, "I expect you to attend the function."

- (a) He told me that he had expected to me attend the function
(b) He told me that he expected me to attended the function
(c) He told me that he expected me to have attended the function
(d) He told me that he expected me to attend the function

Q95. He said, "Why didn't you send your application to me?"

- (a) He enquired why I had not sent my application to him
(b) He enquired why I did not send my application to him
(c) He enquired why had I not sent my application to him
(d) He enquired why did I not send my application to him

Directions (96-100): In the following questions, you have four brief passages with 5 questions following each passage. Read the passages carefully and choose the best answer to each question out of the four alternatives.

A guest speaker was addressing the faculty and the students in the college auditorium. I had joined the faculty the year before, and was already drawing attention. I was 27, full of assumptions about myself, quick with a comment on everything, and expected people to pay attention to all that I had said.

I listened to the talk for the first five minutes. By the seventh, I was looking around to check if others were listening. By the tenth, I had glanced at my watch three times, and yawned once. After twenty minutes I was thoroughly bored, and telling myself that it was difficult to sit through such an insipid talk. I wanted to share some of my expert comments with my neighbour. But he was completely sold out to the speaker, and looked like it was the greatest day of his life. I was disgusted. I tried to catch a word or phrase from the talk, only to convince myself that this should be his last talk ever.

The one-hour talk took ages to end, and before the thanks were said, I jumped to my feet with a sigh of relief. My neighbour smiled at me and said, "The talk was wonderful, wasn't it?" I retorted, "It almost killed me with kindness".

Q96. What do you understand about the narrator from the description in the first paragraph?

- (a) He was a genius (b) He was knowledgeable
(c) He was self-conceited (d) He was charismatic

Q97. How did the narrator respond to the speech?

- (a) He was glued (b) He was bored
(c) He did not mind it (d) He was engrossed in it

Q98. The narrator was disgusted because

- (a) His neighbor was engrossed in an insipid talk
(b) The talk was boring
(c) He could not understand it
(d) He was impatient

Q99. When the speech ended the narrator was

- (a) Happy (b) Relieved
(c) Exhausted (d) Disgusted

Q100. How long did the narrator listen to the speech without judgement?

- (a) Seven minutes (b) Ten minutes
(c) Five minutes (d) Twenty minutes

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