



SHAKTHII ACADEMY

Increasing Confidence ; Reaching Goals

SBI PO Prelims Model Paper

\$\$\$ (1-10):

Read the passage carefully and answer the questions given below it. Certain words/phrases have been given in bold to help you locate them while answering some of the questions.

Mutual funds are professionally managed and well-regulated. These are two solid reasons why mutual funds can be an important wealth creation tool.

As unit holders in the funds, we are the real owners of the assets but the Trust is the nominal owner. Such a structure ensures that the assets (our assets) remain safe even if the asset management company (AMC), which does the actual management of funds, goes bankrupt. Even bankruptcy is almost impossible because the AMC is not allowed to do any other business. For example it cannot get into banking or life insurance business. It can only do fund management; it can run a PMS (portfolio management services) but not anything else.

The trustees look at the **holistic** picture of the fund house, make sure that the registrar, auditor, distributors are all doing their jobs and that the complaints are well-handled. The trustees have to ensure that **compliance** is well taken care of, the custodian documentation is good and that there is a good internal control in place. They have to ensure that the funds do what they are supposed to do — so a liquid fund cannot buy a security maturing in 20 years, or load an income fund with equities. In case of a fraud, the trustee can be **sued** and he will have to pay the fine from his personal resources.

The fund management is done by the asset management company and this company has a board with independent directors as well as interested directors. The board handles the day-to-day administration of the company through a managing director. He is responsible for the compliance — to all the rules of the business. He has to ensure that there is no **conflict of interest** between the employees and the unit holders. He has to ensure that the vendors appointed are all compliant; the Registrar (for the administration of the schemes) is SEBI-compliant; the distribution is streamlined; the complaints are taken care of; etc.

Mutual funds come out with an offer document for schemes which states what the funds will do, who are its trustees, auditors, directors, the potential composition of portfolio, etc. This document is **vetted** by the compliance officer, circulated among the board, signed by the managing director (for and on behalf of the board), approved by the trustees and accepted by the regulator.

The compliance officer has to ensure operational-level accuracy and tell the Board that all the operational things are in place. Then the Board of Directors and the Trustees approve it.

\$\$\$

Q1. The trustees are supposed to perform multiple functions. Which of the following is not one of them?

- 1) To ensure that the funds do what they are supposed to do
- 2) To make sure that the registrar, auditor, distributors all are doing their jobs well
- 3) To ensure that compliance is well taken care of
- 4) To manage payment of fine from different sources in case a fraud is detected



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5) All the above are the functions of the trustees.

Q2. Who among the following handles the everyday administration of the AMC? Answer in the context of the passage.

- 1) Auditor of the company
- 2) Registrar of the company
- 3) Managing director of the board of the company
- 4) A committee comprising unit holders and the managing director
- 5) Other than those given as options

Q3. Why do our funds remain safe even if the asset management company goes bust?

- 1) Because the asset management company has no right to touch public fund
- 2) Because the asset management company cannot do any business other than fund management
- 3) Because the fund management trust is the nominal owner of the assets
- 4) Only 1 and 2
- 5) Only 2 and 3

Q4. Find the incorrect statement on the basis of the given passage.

(A)Only trustees-can allow a liquid fund buy a security maturing in 20 years or so.(B)In respect of mutual funds, the unit holders are the real owners of the assets.(C)There is almost nil possibility of bankruptcy when assets are managed by AMC.

- 1) Only A
- 2) Only B
- 3) Only C
- 4) Only A and B
- 5) Only A and C

Q5. What is/are the purpose(s) of bringing out the offer document of mutual fund schemes?

- 1) To ensure compliance of govt guidelines
- 2) To win the trust of investors/stakeholders
- 3) To make the public aware of the different aspects of the scheme
- 4) All 1, 2 and 3
- 5) Only 2 and 3

Q6. What is the meaning of the phrase 'conflict of interest' as used in the passage?

- 1) Personal vengeance
- 2) A conflict between the private interests and the official responsibilities of a person in position of trust
- 3) Intention of the employee to harm the unit holders



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- 4) No better relationship between two groups of persons
- 5) Other than those given as options

Q7. Choose the word which is **MOST SIMILAR** in meaning to the word printed in bold as used in the passage.

Holistic

- 1) abridged
- 2) full
- 3) limited
- 4) incomplete
- 5) part

Q8. Choose the word which is **MOST SIMILAR** in meaning to the word printed in bold as used in the passage.

Sued

- 1) exonerated
- 2) requested
- 3) accused
- 4) excused
- 5) absolved

Q9. Choose the word which is **MOST OPPOSITE** in meaning of the word printed in bold as used in the passage.

Compliance

- 1) agreement
- 2) conformity
- 3) defiance
- 4) consent
- 5) acquiescence

Q10. Choose the word which is **MOST OPPOSITE** in meaning of the word printed in bold as used in the passage.

Vetted

- 1) overlooked
- 2) analysed
- 3) reviewed
- 4) perused
- 5) probed



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\$\$\$ (11-15):

Read each sentence to find out whether there is any grammatical or idiomatic 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 5). (Ignore errors of punctuation, if any.)

\$\$\$

Q11. /1) With the United Kingdom declining India's request / 2) to deport Vijay Mallya, the Enforcement Directorate has requested Interpol / 3) to issue a Red Comer Notice against him / 4) in connection with his money laundering probe. / 5) No error

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

Q12. /1) Three students aged between five to 15 years / 2) were washed away in flash floods / 3) triggered by cloud burst at / 4) Kathari Chakwar in Jammu. / 5) No error

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

Q13. /1) The family members of Aditya, who was killed / 2) in the Gaya road rage incident, / 3) have demanded a CBI inquiry / 4) of his murder. / 5) No error

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

Q14. /1) Salahuddin was found guilty of genocide, arson, / 2) persecuting people on religious / 3) and political grounds and forced Hindus / 4) to convert to Islam. / 5) No error

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

Q15. /1) Had the unusual experiment of the coming together / 2) of the left and the congress successful / 3) in WB, it could have become the centre piece / 4) of an anti-Modi platform. / 5) No error

- 1) 1



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- 2) 2
- 3) 3
- 4) 4
- 5) 5

\$\$\$ (16-20):

Each question below has two blanks, each blank indicating that something has been omitted. Choose the set of words for each blank that best fits the meaning of the sentence as a whole.

\$\$\$

Q16. In 2009, Prime Minister Sheikh Hasina's government _____ on its election promise to set up an International Crime Tribunal to try those _____ of genocide during the 1971 war.

- 1) conveyed, suspicious
- 2) delivered, suspected
- 3) expressed, uncertain
- 4) forwarded, imagined
- 5) deposited, doubtful

Q17. During the British Raj, engineer Sir Arthur Cotton _____ to link the Ganga and the Cauvery to _____ navigation.

- 1) pursued, block
- 2) inquired, simplify
- 3) explored, check
- 4) quested, detain
- 5) sought, facilitate

Q18. The project has drawn _____ for being put up in parts, and not in its _____ for green clearances.

- 1) flak, entirety
- 2) criticism, partiality
- 3) disapproval, section
- 4) complement, certainty
- 5) praise, fraction

Q19. Merit is much talked about in our society to criticize and _____ reservation but merit _____ should not be under any illusion.

- 1) obstruct, dealer
- 2) oppose, mongers
- 3) contradict, seeker
- 4) argue, peddler
- 5) confront, merchant



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Q20. _____ five days to go for Tamil Nadu polls, passengers from different _____ of life travelling on Kovai Express shared their political views.

- 1) For, parts
- 2) Still, areas
- 3) In, regions
- 4) With, walks
- 5) Against, locations

\$\$\$ (21-25):

Rearrange the following six sentences (A), (B), (C), (D), (E) and (F) in the proper sequence to form a meaningful paragraph and then answer the questions given below.

(A) Indeed, the list of topics can be greatly extended. (B) From this view, human behaviour is seen as activity directed towards the achievement of various objectives through the use of various resources. (C) However, it is not what economics deals with that makes it a distinctive science. (D) Moreover, economics is a particular view of reality. (E) Most people know that economics deals with such items as population, natural resources, incomes tariffs, money and prices. (F) Instead, it is how it organises and analyses its materials; it is the perspective from which it views the world that makes it a special field of study.

\$\$\$

Q21. Which of the following should be the **FIRST** sentence after rearrangement?

- 1) C
- 2) D
- 3) E
- 4) F
- 5) A

Q22. Which of the following should be the **SECOND** sentence after rearrangement?

- 1) F
- 2) B
- 3) D
- 4) A
- 5) C

Q23. Which of the following should be the **THIRD** sentence after rearrangement?

- 1) C
- 2) F
- 3) B
- 4) D
- 5) E



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Q24. Which of the following should be the **LAST (SIXTH)** sentence after rearrangement?

- 1) E
- 2) B
- 3) C
- 4) F
- 5) D

Q25. Which of the following should be the **FIFTH** sentence after rearrangement?

- 1) A
- 2) C
- 3) F
- 4) B
- 5) D

\$\$\$ (26 -30):

In the following passage, some of the words have been left out, each of which is indicated by a number. Find the suitable word from the options given against each number and fill up the blanks with appropriate words to make the paragraph meaningful.

(26) is the nature of creation. "Cultural diversity between as well as within countries is as **(27)** for humankind as biodiversity is for nature," concluded a Unesco World Report in 2008. The **(28)** that everybody should follow the same ideology, god and culture is at the root of **(29)** that is fuelling terrorism today.

Multiculturalism as a doctrine of passive acceptance of many cultures existing side by side isn't enough. There has to be a structure for **(30)** and sharing of cultures to develop more inclusive societies.

\$\$\$

Q26. I

- 1) Variety
- 2) Diversity
- 3) Distinction
- 4) Similarity
- 5) Uniformity

Q27. II

- 1) auxiliary
- 2) secondary
- 3) subsidiary



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- 4) essential
- 5) requisite

Q28. III

- 1) notion
- 2) impression
- 3) cue
- 4) insight
- 5) intuition

Q29. IV

- 1) impartiality
- 2) disinterest
- 3) fanaticism
- 4) prejudice
- 5) laxity

Q30. V

- 1) actions
- 2) relations
- 3) proportion
- 4) feeling
- 5) interactions

\$\$\$ (31-35):

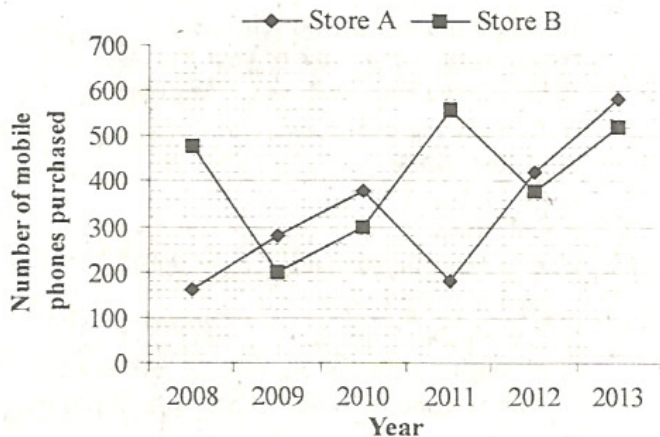
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Refer to the graph and answer the given questions. Data related to the number of mobile phones purchased for two stores A and B during six years by store owner x.



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Q31. What is the ratio of the total number of mobile phones purchased for store A and B together in 2009 to the total number of mobile phones purchased for the two stores together in 2012?

- 1) 12 : 25
- 2) 3 : 5
- 3) 4 : 3
- 4) 5 : 3
- 5) None of these

Q32. Out of the total number of mobile phones purchased for store A and B together in 2008, only 20% are Android. What is the total number of Android mobile phones purchased for store A and B together in 2008?

- 1) 228
- 2) 128
- 3) 160
- 4) 148
- 5) 138

Q33. The number of mobile phones purchased for store A in 2011 is what per cent of the number of mobile phones purchased for store B in 2010?

- 1) 60%
- 2) 50%
- 3) 48%
- 4) 56%
- 5) Other than those given as options



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Q34. The number of mobile phones purchased for store B increased by what per cent from 2008 to 2011 ?

- 1) $14 \frac{2}{3}\%$
- 2) $16 \frac{2}{3}\%$
- 3) $24 \frac{2}{3}\%$
- 4) $18 \frac{2}{3}\%$
- 5) $25 \frac{1}{3}\%$

Q35. What is the difference between the total number of mobile phones purchased for store B in 2008, 2009 and 2013 and the total number of mobile phones purchased for store A in 2009, 2010 and 2008 together?

- 1) 480
- 2) 360
- 3) 580
- 4) 380
- 5) 280

\$\$\$ (36 - 40):

What approximate value should come in place of question mark (?) in the following questions? (You are not expected to calculate the exact value.)

\$\$\$

Q36. $10/12 \times (4/18 \div 8/18) \div 12/14 = ?$

- 1) 0.5
- 2) 0.65
- 3) 0.42
- 4) 0.9
- 5) 0.1

Q37. $30\% \text{ of } 125 + 20\% \text{ of } 9.60 = ?$

- 1) 40
- 2) 34
- 3) 38
- 4) 25
- 5) 45

Q38. $1622.84 \div 55 = ?$

- 1) 27
- 2) 28
- 3) 20
- 4) 24.5



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5) 30

Q39. $(6/1.46 \times 11/2) \div (28/7 \times 22/5) = ? \div 1678.89$

- 1) 2070
- 2) 2600
- 3) 210
- 4) 2150
- 5) 2100

Q40. $(2.2)^2 + (6.4)^2 + (6)^3 = ?$

- 1) 258
- 2) 274
- 3) 276
- 4) 262
- 5) None of these

\$\$\$ (41- 45):

What should come in place of question mark(?) in the following number series?

\$\$\$

Q41. 4, 7, 13, 25, 49, ?

- 1) 87
- 2) 96
- 3) 125
- 4) 114
- 5) 97

Q42. 50, 25, 37.5, 93.75, 328.125, ?

- 1) 1476.5625
- 2) 1312.5625
- 3) 1804.6825
- 4) 1313.7625
- 5) None of these

Q43. 106, 112, ?, 118, 94, 124, 88

- 1) 74
- 2) 80
- 3) None of these
- 4) 76



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5) 78

Q44. 15, 31, 63, 127, ?, 511

- 1) 263
- 2) 255
- 3) 274
- 4) None of these
- 5) 252

Q45. 104, 141, 215, 326, 474, ?

- 1) 659
- 2) 759
- 3) 649
- 4) 729
- 5) 719

Q46. Mr Jardon counted the mangoes of 241 mango trees of his garden. The average number of mangoes was 1710. If the number of mangoes of one tree was wrongly written as 1873 instead of 1632, then find the actual average no. of mangoes in the garden of Mr Jardon.

- 1) 1709
- 2) Can't be determined
- 3) 1706
- 4) 1708
- 5) 1702

Q47. In a 120-litre mixture of milk and water, the percentage of water is only 20%. The milkman gave 15 litres of this mixture to a customer and then added 15 litres of water to the remaining mixture. What is the percentage of milk in the final mixture?

- 1) 58%
- 2) 68%
- 3) 56%
- 4) 62%
- 5) 70%

Q48. How many numbers of four digits greater than 2500 can be formed with the digits 0, 1, 2, 3, 4, 5 and 6, if repetition is not allowed?

- 1) 520
- 2) None of these
- 3) 540
- 4) 560



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5) 580

Q49. At a simple interest Rs.609 becomes Rs.812 in four years. If the rate of interest was increased by 4% more how much will Rs.750 become in four years?

- 1) Data inadequate
- 2) Rs.1120
- 3) Rs.909
- 4) Rs.1330
- 5) None of these

Q50. There are 7 boys and 7 girls in a class. They sit in a row randomly. What is the chance that all the girls do not sit together?

- 1) 296/297
- 2) 428/429
- 3) 367/368
- 4) 305/306
- 5) None of these

\$\$\$ (51-55):

In each of these questions two equations are given. You have to solve these equations and give answer

- 1) if $x > y$
- 2) if $x < y$
- 3) if $x = y$
- 4) if $x \geq y$
- 5) if $x \leq y$

\$\$\$

Q51. I. $7x + 3y = 30$ II. $6x - 2y = 12$

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

Q52. I. $x^2 + 2x - 8 = 0$ II. $y^2 - 5y + 6 = 0$

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



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Q53. I. $21x^2 - 17x + 2 = 0$

II. $56y^2 - 15y + 1 = 0$

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

Q54. I. $2x^2 - 11x + 15 = 0$

II. $2y^2 + 3y - 9 = 0$

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

Q55. I. $2x^2 - 15x + 28 = 0$

II. $y^2 = 9$

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

Q56. What will be the percentage profit after selling an article at a certain price if there is a loss of 40% when the article is sold at one-third of the previous selling price?

- 1) 80%
- 2) 75%
- 3) 90%
- 4) 60%
- 5) None of these

Q57. A reduction of 20% in the price of sugar enables a person to get 5.2 kg more sugar for Rs.1300. Find the original price of sugar (Rs. per kg).

- 1) Rs.67.5
- 2) Rs.62
- 3) None of these
- 4) Rs.50
- 5) Rs.62.5

Q58. Karan left for Muradabad from Rampur at 9 : 30 am. He travelled at the speed of 60



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kmph for 2 hours 15 minutes. After that he reduced the speed to 40 kmph. If the distance between the two cities is 285 km, at what time did Karan reach Muradabad?

- 1) None of these
- 2) 4 : 00 pm
- 3) 3 : 00 pm
- 4) 2 : 30 pm
- 5) 3 : 30 pm

Q59. An equilateral triangle is cut up into smaller equilateral triangles with $\frac{1}{6}$ of its original side. Find the no. of triangles thus formed.

- 1) 36
- 2) 216
- 3) Can't be determined
- 4) 6
- 5) 3

Q60. Ajit and Binoy walk round a circle of circumference, 1200 metres. Ajit walks at the rate of 150 m/min and Binoy at 80m/min. If both of them start at the same time from the same point and walk in the same direction, after what time will they be together for the first time?

- 1) $17 \frac{1}{7}$ minutes
- 2) 18 minutes
- 3) 20 minutes
- 4) 19 minutes
- 5) None of these

Q61. Rahul and Ram undertake to do a piece of work for Rs.1500. Rahul alone can do it in 10 days, while Ram alone can do it in 12 days. With the assistance of a boy they finish it in 4 days. The share of the boy is

- 1) Rs.800
- 2) Rs.600
- 3) None of these
- 4) Rs.600
- 5) Rs.500

Q62. What is the no. of quadrilaterals that can be formed by joining the vertices of a polygon having 12 sides?

- 1) 495
- 2) 330
- 3) 485
- 4) 210



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5) 160

Q63. Ravi can swim at 10 kmph in still water. The river flows at 3 kmph and it takes 12 hours more upstream than downstream for the same distance. How far is the place?

- 1) 164km
- 2) 182km
- 3) 176km
- 4) 160km
- 5) 175km

Q64. Two trains of length 140m and 180m respectively moving at the same speed pass a static pole in 7 seconds and 9 seconds respectively. In what time will they cross each other if they are moving in opposite directions?

- 1) 5 seconds
- 2) 8.5 seconds
- 3) None of these
- 4) 8 seconds
- 5) 9 seconds

Q65. A took a certain amount loan from a bank at 6% simple interest per annum. A lends the same amount to B at 12% simple interest per annum. If at the end of five years, A made a profit of Rs.9000 from the deal, what was the original sum?

- 1) Rs.30000
- 2) Rs.40000
- 3) Rs.60000
- 4) Rs.35000
- 5) Other than the given options

\$\$\$ (66-70):

Study the following information carefully and answer the questions given below

Eight friends A, B, C, D, E, F, G and H are sitting around a circular table but not necessarily in the same order. Only three of them are not facing the centre.

A sits third to the left of D and both are facing the same direction. C is not facing the centre but sits second to the right of G. H is not an immediate neighbour of either F or C. F sits second to the left of C and is not an immediate neighbour of B. E sits on the immediate left of F and faces the same direction as B. The immediate neighbours of H face the same direction.

\$\$\$

Q66. Who among the following are immediate neighbours of B?

- 1) D, F
- 2) G, C



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- 3) E, H
- 4) G, H
- 5) None of these

Q67. Which of the following groups is not facing the centre?

- 1) H, C, E
- 2) D, G, C
- 3) A, F, B
- 4) H, F, C
- 5) None of these

Q68. Which of the following statements is/are true?

- 1) E is not facing the centre
- 2) C and D are immediate neighbours of each other
- 3) A and H both are facing opposite directions
- 4) Only 1 and 2 are true
- 5) None of these

Q69. Who among the following sits exactly between E and A?

- 1) H
- 2) G
- 3) F
- 4) C
- 5) None of these

Q70. Who among the following sits second to the right of the one who is fourth to the left of H?

- 1) E
- 2) A
- 3) C
- 4) D
- 5) None of these

\$\$\$ (71-75):

In these questions, a relationship between different elements is shown in the statements. The statements are followed by two conclusions. Give answer

- 1) if only conclusion I is true
- 2) if only conclusion II is true
- 3) if either conclusion I or II is true
- 4) if neither conclusion I nor II is true



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5) if both conclusion I and II are true

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Q71. **Statements:** $P = W \geq C, H \geq K > R < C$ **Conclusions:** I. $R < K$ II. $C \leq P$

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

Q72. **Statements:** $A > B, C > D \leq F, G \leq F, B \geq C$ **Conclusions:** I. $A > D$ II. $G \geq C$

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

Q73. **Statements:** $Z \geq X > B, D \leq R < C, Z = D$ **Conclusions:** I. $R \geq X$ II. $B < R$

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

Q74. **Statements:** $R < C \leq M, R \geq P < D = H$ **Conclusions:** I. $M \leq P$ II. $C > H$

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

Q75. **Statements:** $Q = T \geq P \geq N, L \leq Q \geq S$ **Conclusions:** I. $Q \leq N$ II. $T \geq L$

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

\$\$\$ (76 -78):

Study the following information carefully and answer the questions given below:

K is mother of D, who is sister of J. G is father of H. E is wife of G. J is son of H.

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Q76. How is D related to G?

- 1) Son
- 2) Grandson
- 3) Granddaughter
- 4) Daughter
- 5) None of these

Q77. How is E related to K?

- 1) Mother-in-law
- 2) Sister
- 3) Mother
- 4) Can't be determined
- 5) None of these

Q78. How many children does H have?

- 1) One
- 2) Two
- 3) Three
- 4) None
- 5) None of these

\$\$\$ (79 - 81):

Study the following information carefully and answer the questions given below:

Six friends P, Q, R, S, T and U have different numbers of shirts. The person who has the second highest number of shirts has 25 shirts. P has more shirts than Q but not the highest. S has more shirts than R and U but not more than Q. R has more shirts than only one person.

\$\$\$

Q79. How many shirts does T possibly have?

- 1) 23
- 2) 27
- 3) 21
- 4) 19
- 5) None of these

Q80. Who among the following has the third lowest number of shirts?

- 1) S
- 2) R
- 3) U
- 4) Q
- 5) None of these



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Q81. If P and R together have 37 shirts, then how many shirts does R have?

- 1) 15
- 2) 18
- 3) 12
- 4) 25
- 5) None of these

\$\$\$ (82 - 86):

In each question below are given two statements followed by two conclusions numbered I and II. You have to take the given statements to be true even if they seem to be at variance with commonly known facts. Read all the conclusions and then decide which of the given conclusions logically follows from the given statements, disregarding commonly known facts. Give answer

- 1) if only conclusion I follows.
- 2) if only conclusion II follows.
- 3) if either conclusion I or II follows.
- 4) if neither conclusion I nor II follows.
- 5) if both conclusion I and II follow.

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Q82. **Statements:** Some balls are bubbles. All drops are bubbles

Conclusions: I. All drops being balls is a possibility. II. All bubbles are balls is a possibility.

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

Q83. **Statements:** No card is a book. Some books are papers. All cards are covers.

Conclusions: I. Some covers are not books. II. No paper is a card.

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

Q84. **Statements:** No card is a book. Some books are papers. All cards are covers.

Conclusions: I. At least some papers are covers. II. At least some papers are books.

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



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Q85. **Statements:** All pens are caps. No pencil is a sharpener. Some caps are pencils.

Conclusions: I. All pens are pencils. II. No pencil is a cap.

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

Q86. **Statements:** All pens are caps. No pencil is a sharpener. Some caps are pencils.

Conclusions: I. At least some caps are sharpeners. II. All pens being pencils is a possibility.

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

\$\$\$ (87-91):

Study the following information carefully and answer the questions given below

Ten people are sitting in two parallel rows containing five people each in such a way that there is equal distance between them. In row 1, C, D, E, F and H are seated and all of them are facing south. In row 2, P, Q, R, S and T are seated and all of them are facing north, but not necessarily in the same order.

Neither S nor Q sits at the extreme ends of the line, but S sits second to the right of Q. H does not sit at any end. The one who is facing S sits second to the left of C. One of the immediate neighbours of C faces T. The one who is facing P sits second to the right of F. There is only one person between D and F. F is not an immediate neighbour of C.

\$\$\$

Q87. Who among the following is facing H?

- 1) R
- 2) S
- 3) Q
- 4) T
- 5) None of these

Q88. What is the position of P with respect to T?

- 1) Second to the left
- 2) Third to the right
- 3) Second to the right
- 4) Can't be determined
- 5) None of these



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Q89. Four of the following five are alike in a certain way based on the given arrangement and hence form a group. Who among the following does not belong to that group?

- 1) Q, C
- 2) R, F
- 3) S, H
- 4) S, D
- 5) T, E

Q90. Who among the following is facing R?

- 1) F
- 2) H
- 3) D
- 4) E
- 5) None of these

Q91. Which of the following statements is true regarding the given arrangement?

- 1) Only two persons sit between C and F
- 2) I sits at an extreme end
- 3) Q sits on the immediate left of S
- 4) R is facing H
- 5) Only 1 and 4 are true

\$\$\$ (92-95):

Study the following information carefully and answer the questions given below:

In a certain code language 'she can do this' is written as 'zu la ku na', 'she know about that' is written as 'dm/kt pl na', 'that can be fast' is written as 'sa pl ku ln' and 'this is about care' is written as 'la pa kt re'.

\$\$\$

Q92. In the given code language what does the code 'kt' stand for?

- 1) care
- 2) about
- 3) know
- 4) Can't be determined
- 5) None of these

Q93. What is the code for 'fast' in the given code language?

- 1) ln
- 2) sa
- 3) ku
- 4) Either 1 or 2



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5) None of these

Q94. What is the code for 'do' in the given code language?

- 1) ku
- 2) pa
- 3) zu
- 4) na
- 5) None of these

Q95. 'In zu ku sa' is the code for which of the following?

- 1) this can do fast
- 2) can be do fast
- 3) that is know about
- 4) Can't be determined
- 5) None of these

\$\$\$ (96-100):

Study the following information carefully and answer the questions given below:

There are eight persons A, C, Q, M, P, Q, R and S living in a eight-storey building but not necessarily in the same order. The lowermost floor is numbered 1 and the topmost floor is numbered 8. A lives on the sixth floor. M lives on the floor which is just above or just below G. There are three floors between the floor on which G and R live. C lives on AN even-numbered floor and above G. Q lives exactly between P and M. R lives on the first floor.

\$\$\$

Q96. How many persons live above the floor on which S lives?

- 1) One
- 2) Two
- 3) Three
- 4) None
- 5) None of these

Q97. Who among the following lives exactly between A and M?

- 1) M
- 2) G
- 3) S
- 4) C
- 5) None of these

Q98. Q lives on which of the following floors?

- 1) Second



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- 2) Fourth
- 3) Third
- 4) Fifth
- 5) None of these

Q99. Four of the following five are alike in a certain way and hence form a group. Who among the following does not belong to that group?

- 1) S
- 2) G
- 3) Q
- 4) P
- 5) R

Q100. Which of the following statements is/are true?

- 1) P lives just below A's floor
- 2) M lives on the second floor
- 3) Q lives just above P's floor
- 4) None is true
- 5) None of these

---Answer---

A1.4	A18.1	A35.4
A2.3	A19.2	A36.1
A3.5	A20.4	A37.1
A4.1	A21.3	A38.5
A5.5	A22.4	A39.5
A6.2	A23.1	A40.4
A7.2	A24.2	A41.5
A8.3	A25.5	A42.1
A9.3	A26.2	A43.3
A10.1	A27.4	A44.2
A11.4	A28.1	A45.1
A12.1	A29.3	A46.1
A13.4	A30.5	A47.5
A14.3	A31.2	A48.1
A15.5	A32.2	A49.2
A16.2	A33.1	A50.2
A17.5	A34.2	A51.3



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A52.5	A69.3	A86.2
A53.4	A70.1	A87.2
A54.1	A71.5	A88.3
A55.1	A72.1	A89.4
A56.1	A73.5	A90.1
A57.5	A74.4	A91.1
A58.5	A75.2	A92.2
A59.1	A76.3	A93.4
A60.1	A77.1	A94.3
A61.3	A78.2	A95.2
A62.1	A79.2	A96.1
A63.2	A80.1	A97.2
A64.4	A81.3	A98.3
A65.1	A82.5	A99.4
A66.2	A83.1	A100.3
A67.4	A84.2	
A68.3	A85.4	

---Answer---

---Explanation---

E11. Replace 'his' with 'its'

E12. Replace 'to' with 'and'

E13. Replace 'of' with 'into'

E14. Replace 'forced' with 'forcing'

E31. Total mobile phones purchased for store A and B together in 2009 = $280 + 200 = 480$

Similarly, total mobile phones (A + B)₂₀₁₂

= $420 + 380 = 800$

∴ Reqd ratio = $480/800 = 48/80 = 3 : 5$

E32. Total mobile phones purchased for store A and B together in 2008

= $480 + 160 = 640$

∴ Android mobile phones = 20% of 640



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$$= 640/5 = 128$$

E33. The number of mobile phones purchased for store A in 2011 = 180

The number of mobile phones purchased for store B in 2010 = 300

$$\therefore \text{Reqd percentage} = 180/300 \times 100 = 60\%$$

E34. Reqd percentage increase

$$= 560 - 480/480 \times 100 = 80/480 \times 100$$

$$= 800/48\% = 100/6\% = 50/3\% = 16 \frac{2}{3}\%$$

$$E35. \text{Reqd difference} = (480 + 200 + 520) - (280 + 380 + 160) = 1200 - 820 = 380$$

$$E36. ? = 10/12 \times [4/18 \times 18/8] \div 12/14$$

$$= 10/12 \times \frac{1}{2} \times 14/12 = 35/72 = 0.5$$

$$E37. ? = 30/100 \times 125 + 20/100 \times 9.6$$

$$= 37.5 + 1.92 = 39.42 \approx 40$$

$$E38. ? = 1622.5/55 = 29.5 \approx 30$$

$$E39. ? \div 1680 \approx (6/1.5 \times 11/2) \div (28/7 \times 22/5)$$

$$= 4 \times 11/2 \times 5/4 \times 22 = 5/4$$

$$\therefore ? = 5/4 \times 1680 = 2100$$

$$E40. ? \approx (2)^2 + (6.5)^2 + (6)^3 = 4 + 42.25 + 216 = 262.25 \approx \mathbf{262}$$

E41. The series is $4 + 3 = 7, 7 + 6 = 13, 13 + 12 = 25, 25 + 24 = 49, 49 + 48 = \mathbf{97}, \dots$

E42. The series is $x0.5, x1.5, x2.5, x3.5, x4.5, \dots$

$$\text{ie } 50 \times 0.5 = 25, 25 \times 1.5 = 37.5, 37.5 \times 2.5 = 93.75, 93.75 \times 3.5 = 328.125, 328.125 \times 4.5 = \mathbf{1476.5625},$$

E43. The series is $+(1 \times 6), -(2 \times 6), +(3 \times 6), -(4 \times 6), +(5 \times 6), -(6 \times 6), +(7 \times 6), -(8 \times 6), \dots$

$$\text{ie } 106 + (1 \times 6) = 112, 112 - (2 \times 6) = 100, 100 + (3 \times 6) = 118, 118 - (4 \times 6) = 94, 94 + (5 \times 6) = 124, 124 - (6 \times 6) = 88, 88 + (7 \times 6) = 130, \dots$$



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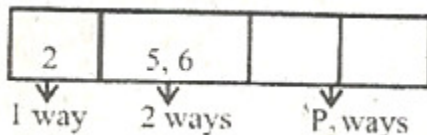
E44. The series is $(15 \times 2) + 1 = 31$, $(31 \times 2) + 1 = 63$, $(63 \times 2) + 1 = 127$, $(127 \times 2) + 1 = 255$,
 $255 \times 2 + 1 = 511$

E45. The series is $+ 37$, $+74$, $+111$, $+148$, $+185$, $+222$, ...
ie $104 + 37 = 141$, $141 + 74 = 215$, $215 + 111 = 326$, $326 + 148 = 474$, $474 + 185 = 659$

E46. Actual average
 $= 241 \times 1710 + (1632 - 1873)/241 = 411869/241 = 1709$

E47. Water in the mixture $= 120 \times 20/100 = 24$ litres
 \therefore Milk in the mixture $= 120 - 24 = 96$ litres
Now, in 15 litres of mixture the quantity of milk $= 15 \times 96/120 = 12$ litres
 \therefore Remaining quantity of milk in the mixture
 $= 96 - 12 = 84$ litres
 \therefore Required percentage of milk in the mixture $= 84 \times 100/120 = 70\%$

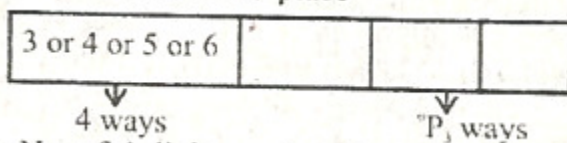
E48. **Case I.** When 2 comes at thousand's place



Thousand's place can be filled up by 2 in 1! way and hundred's place can be filled up by any one of the two digits 5 or 6 in 2 ways. Remaining two places can be filled up by remaining five digits in 5P_2 ways.

\therefore No. of four-digit numbers formed
 $= 1 \times 2 \times {}^5P_2$
 $= 2 \times 5!/3! = 40$

Case II. When anyone of 3, 4, 5 and 6 occurs at thousand's place





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$$\therefore \text{No. of 4-digit numbers formed} = 4 \times {}^6P_3$$

$$= 4 \times 6!/3! = 480$$

$$\therefore \text{Reqd} = 480 + 40 = 520$$

$$\text{E49. Rate of interest} = 812 - 609 / 4 \times 609 \times 100$$

$$= 25/3\% = 8 \frac{1}{3}\%$$

$$\text{New rate} = 25/3 + 4 = 27/3 \%$$

$$\therefore \text{Amount} = 750 + 750 \times 37 \times 4/100 \times 3 = 750 + 370 = \text{Rs } 1120$$

$$\text{E50. Total number of arrangements} = 14! = n(S)$$

$$\text{Taking 7 girls as one unit, total no. of persons} = 7 + 1 = 8$$

$$\therefore \text{No. of arrangements} = {}^8P_8 = 8!$$

$$7 \text{ girls sit in } {}^7P_7 = 7! \text{ ways among themselves.}$$

$$\therefore n(E) = 8! \times 7!$$

$$\therefore P(E) = n(E)/n(S) = 8! \times 7!/14! = 1/429$$

$$\therefore \text{All the girls do not sit together} = 1 - P(E) = 1 - 1/429 = 428/429$$

$$\text{E51. Now, from equation (i) } \times 2 + \text{equation (ii) } \times 3, \text{ we get}$$

$$14x + 6y = 60$$

$$18x - 6y = 36$$

$$\hline 32x = 96$$

$$x = 3$$

$$\text{Now, putting the value of } x \text{ in (i), we get}$$

$$7 \times 3 + 3y = 30$$

$$\text{or, } 3y = 30 - 21$$

$$\text{or, } 3y = 9$$

$$\therefore y = 3$$

$$\text{E52. I. } x^2 + 2x - 8 = 0$$

$$\text{or, } x^2 + 4x - 2x - 8 = 0$$

$$\text{or, } (x + 4)(x - 2) = 0$$

$$\therefore x = 2, -4$$

$$\text{II. } y^2 - 5y + 6 = 0$$

$$\text{or, } (y - 3)(y - 2) = 0$$

$$\therefore y = 2, 3$$

$$\text{Hence } x \leq y$$



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E53. I. $21x^2 - 17x + 2 = 0$
or, $21x^2 - 14x - 3x + 2 = 0$
or, $(7x - 1)(3x - 2) = 0$
 $\therefore x = 1/7, 2/3$

II. $56y^2 - 15y + 1 = 0$
or, $(7y - 1)(8y - 1) = 0$
 $\therefore y = 1/7, 1/8$
Hence $x \geq y$

E54. I. $2x^2 - 11x + 15 = 0$
or, $2x^2 - 6x - 5x + 15 = 0$
or, $2x(x - 3) - 5(x - 3) = 0$
or, $(2x - 5)(x - 3) = 0$
 $\therefore x = 5/2, 3$

II. $2y^2 + 3y - 9 = 0$
or, $2y(y + 3) - 3(y + 3) = 0$
or, $(2y - 3)(y + 3) = 0$
 $\therefore y = 3/2, -3$
Hence $x > y$

E55. I. $2x^2 - 15x + 28 = 0$
or, $2x^2 - 8x - 7x + 28 = 0$
or, $2x(x - 4) - 7(x - 4) = 0$
or, $(2x - 7)(x - 4) = 0$
 $\therefore x = 7/2, 4$

II. $y^2 = 9$
 $\therefore y = \pm 3$
Hence $x > y$

E56. When the second SP is $1/x$ of the original selling price.
Then, $\% \text{ profit} = x(100 - \% \text{ loss}) - 100$
 $= 3(100 - 40) - 100 = 80\%$

E57. Reduced price per kg = 20% of $130/5.2 = \text{Rs } 50$
 \therefore Original price per kg = $5 \times 100/100 - 20 = \text{Rs } 62.5$



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E58. Distance covered by Karan in 2 hours 15 minutes = $60 \times \frac{9}{4} = 135$ Km

\therefore Remaining distance = $285 - 135 = 150$ km

Time taken to cover this distance at = $150/40 = 3$ hours 45 minutes

So, Karan reached Muradabad

= 9 : 30 am + 2 : 15 + 3 : 45 = 3 : 30 pm

E59. Reqd no. of triangles formed

$$= \sqrt{3/4} \times a^2 / \sqrt{3/4} (a/6)^2 = 36$$

E60. Ajit gains $(150 - 80)$ or 70m per minutes. Ajit will gain 1200m in

$\therefore 1200/70$ or $17 \frac{1}{7}$ minutes

\therefore Ajit and Binoy will be together in $17 \frac{1}{7}$ minutes

E61. In 1 day the boy can do

$$\frac{1}{4} - (\frac{1}{10} + \frac{1}{2}) = \frac{1}{15} \text{ work}$$

\therefore The boy alone can do the work in 15 days.

\therefore Ratio in which money is to be distributed

$$= \frac{1}{10} : \frac{1}{12} : \frac{1}{15} = 6 : 5 : 4$$

\therefore Share of the boy = $\frac{4}{15} \times 1500 = \text{Rs } 400$

E62. No. of quadrilaterals

$$= \frac{n(n-1)(n-2)(n-3)}{24}$$

$$= \frac{12 \times 11 \times 10 \times 9}{24} = 495$$

E63. Let the distance be x km

$$\text{Then, } \frac{x}{10} - 3 - \frac{x}{10} + 3 = 12$$

$$\text{or, } \frac{x}{7} - \frac{x}{13} = 12$$

$$\text{or, } \frac{13x - 7x}{91} = 12$$

$$\therefore x = 182 \text{ km}$$

E64. Speed of trains = $140/7 = 20$ m/s and $180/9 = 20$ m/s

\therefore Relative speed = $20 + 20 = 40$ m/sec

\therefore Time = $140 + 180/40 = 320/40 = 8$ seconds

E65. Let the sum be Rs x .



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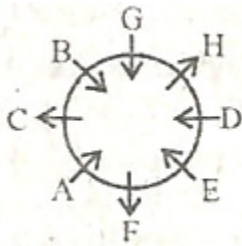
Then, $x \times 12 \times 5/100 - x \times 6 \times 5/100 = 9000$

or, $60x - 30x = 9000 \times 100$

or, $30x = 9000 \times 100$

$\therefore x = 9000 \times 100/30 = \text{Rs } 30000$

E66.



E71. Given statements:

$P = W \geq C \dots (i)$

$H \geq K > R < C \dots (ii)$

Combining both statements, we get

$H \geq K > R < C \leq W = P$

Thus, $K > R$ or $R < K$ is true. Hence I is true.

Again, $C \leq P$ is true. Hence II is also true.

E72. Given statements:

$A > B \dots (i)$

$C > D \leq F \dots (ii)$

$G \leq F \dots (iii)$

$B \geq C \dots (iv)$

Combining all these statements, we get

$A > B \geq C > D \leq F \geq G$

Thus, $A > D$ is true. Again we can't compare

G and C. Hence II ($G \geq C$) is not true.

E73. Given statements:

$Z \geq X > B \dots (i)$

$D \leq R < C \dots (ii)$

$Z = D \dots (iii)$



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Combining both statements, we get

$$C > R \geq D = Z \geq X > B$$

Thus, $R \geq X$ is true. Again, $R > B$ or $B < R$ is true. Hence both conclusion I and II are true.

E74. Given statements:

$$R < C \leq M \quad \dots (i)$$

$$R \geq P < D = H \quad \dots (ii)$$

Combining both statements, we get

$$M \geq C > R \geq P < D = H$$

Thus, $M > P$ is true. Hence I ($M \leq P$) is not true. Again we can't compare C and H. Hence II ($C > H$) is not true

E75. Given statements:

$$Q = T \geq P \geq N \quad \dots (i)$$

$$L \leq Q \geq S \quad \dots (ii)$$

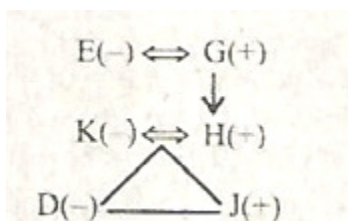
Combining both statements, we get

$$L \leq Q = T \geq P \geq N \text{ or } S \leq Q = T \geq P \geq N$$

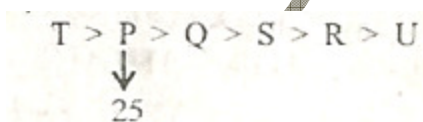
Thus, $Q \leq N$ is not true.

Again, $T \geq L$ is true.

E76.



E79.



$$E81. P + R = 37$$

$$\therefore R = 37 - 25 = 12$$



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E82. There is no negative statement. Thus the possibility in both I and II exists. Hence both conclusions follow.

E83. No card is a book (E) → conversion → No book is a card (11) + All cards are covers (A) = E + A = O* = Some covers are not books. Hence conclusion I follows. Again, No card is a book (E) + Some books are papers (I) = E + I = O* = Some papers are not cards. Hence conclusion II does not follow.

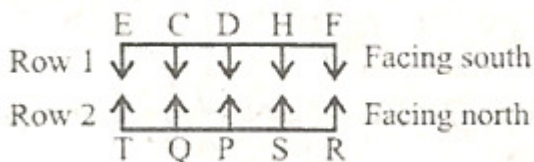
E84. Some covers are not books + Some books are papers (I) = O + I = No conclusion. Hence conclusion I does not follow. Some books are papers (I) → conversion → Some papers are books. Hence conclusion II follows.

E85. All pens are caps (A) + Some caps are pencils (I) = A + I = No conclusions. Hence conclusion I does not follow. Again, Some caps are pencils (I) → conversion → Some pencils are caps (1). Hence conclusion II does not follow.

E86. Some caps are pencils (I) + No pencil is a sharpener (E) = I + E = O = Some caps are not sharpeners. Hence conclusion I does not follow. All pens are caps (A) + Some caps are pencils (I) = A + I = No conclusion.

But the possibility between pen and pencil exists. Thus the possibility in II exists. Hence conclusion II follows.

E87.



E92. she can do this → zu la ku na(i)

she know about that → dm kt pl na(ii)

that can be fast → sa pl ku In(iii)

this is about care → la pa kt re(iv)



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From (i) and (ii).

she → na ... (V)

From (i) and (iii),

can → ku ... (vi)

From (i) and (iv),

this → la , ... (vii)

From (i), (v), (vi) and (vii),

do → zu ... (viii)

From (ii) and (iii),

that → pi(ix)

From (ii) and (iv),

about → kt ... (x)

From (ii), (v), (ix) and (x),

know → dm ... (xi)

From (iii), (vi) and (ix)

be/fast → sa/ln(xii)

From (iv), (vii) and (x)

is/care → pa/re(xiii)

E96.

Floor	Person
8	C
7	S
6	A
5	G
4	M
3	Q
2	p
1	R

E99. Except P, all others live on odd-numbered floors. ,

---Explanation---



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