

# NIACL Assistant

## Preliminary Exam

Held on : 23-04-2017

(Based on Memory)

### PART - I : ENGLISH LANGUAGE

**Directions (1-10) :** Read the following passage and answer the given questions. Certain words/phrases are given in **bold** to help you locate them while answering some of the questions.

There once lived an old man. He had three sons. One day, the old man called his three sons and said, 'My end is near! I wish to give you certain things that I have kept for you.' He then gave a rooster to his eldest son, an axe to the second and a cat to the youngest. 'These things may seem **worthless** but everything depends on how sensibly you use them,' said the old man.

In a few days, the old man died. His sons decided to make their fortune using the gifts, they received from their father. So, the eldest son went wandering about with his rooster. He crossed many towns and cities until he reached an island where people didn't know how to divide their time. 'Perhaps, this should be the **right** place to use my rooster,' he thought. So he called out to the people and said, 'Look! Here is an amazing creature; it has a ruby-red crown upon its head like a knight. It crows four times during the night and when it crows for the last time, the sun soon rises. But, if it crows in broad daylight, then be careful, there will **certainly** be a change in weather.' The people of the island were amazed to see such a creature. 'Is this creature up for sale?' they asked. 'O yes! And the price is as many gold coins as a donkey can carry,' he replied. 'Oh that's just a small price for such a

precious and useful creature who will help in keeping track of time,' they replied and willingly gave him the gold coins.

When the eldest son came home with his wealth, the other two were astonished. Now the second son went wandering about with his axe. He crossed many farms where labourers were carrying their own axes. At last, he **chanced upon** an island where people knew nothing about axes. So, he began displaying his axe and started narrating its uses. People were amazed to see such a fool and agreed to buy it for a horse laden with as much gold as it could carry.

Now it was the third son's turn to see what he could get of his cat. He went about wandering through many towns until he reached a place where mice had created a menace and no cat had ever been seen. 'We are fed up of the mice. They are so many that they dance upon our tables and benches and gnaw whatever they catch hold of,' they complained. The youngest son let his cat free for some time. She began her chase and soon cleared some houses. People were extremely happy to see this. They **begged** the king to buy the wonderful creature for their kingdom. The king readily agreed and bought it for a mule laden with gold. The youngest son happily returned home. Thus, the three sons made the best out of their father's gifts and lived in wealth and prosperity.

1. Which of the following can be an appropriate title for the story ?  
 (1) Bring Out the Devil in You

- (2) The Rooster and its Crow  
 (3) The Mantra to be Successful- Own a Cat or a Rooster  
 (4) Make the Best of What You Have  
 (5) The Scheming Father

2. Which of the following statements is true in the context of the story ?

- (1) The king was reluctant to purchase the cat from the youngest son.  
 (2) All three brothers married the king's daughters in the end.  
 (3) The ailing father had secretly informed the eldest son about making money from his rooster.  
 (4) The youngest son was too lazy to work; as a result he went last on his quest for wealth.  
 (5) None of the given statements is true

3. Choose the following which is most nearly the opposite in meaning as the word 'RIGHT' as used in the story ?

- (1) Dishonest (2) Bad luck  
 (3) Unfitting (4) True  
 (5) Left

4. Which of the following correctly explains the meaning of the phrase, 'Chanced upon' as used in the story ?

- (1) Divided  
 (2) Went with the flow  
 (3) Waited for something  
 (4) Failed to find  
 (5) Came across

5. Which of the following is most nearly the same in meaning as the word 'BEGGED' as used in the story ?

- (1) Pleaded with (2) Sued  
 (3) Donated (4) Granted  
 (5) Ordered for

6. As mentioned in the story, people of the island bought the rooster because .....
- A. they genuinely wished to help the eldest son in becoming a merchant.
- B. it would help them manage their time more effectively.
- C. they were amused by its features and wanted it as a pet.
- (1) Only B (2) Both A and B  
(3) Only A (4) Only C  
(5) Both A and C
7. Which of the following is most nearly the opposite in meaning as the word 'CERTAINLY' as used in the story ?
- (1) Positively (2) Cautiously  
(3) Probably (4) Blindly  
(5) Eccentrically
8. Which of the following characteristics of the father comes across distinctly through the story ?
- (1) He was aggressive  
(2) He was lonely  
(3) He rarely became angry  
(4) He was wise  
(5) He was an animal lover
9. Which of the following is most nearly the same in meaning as the word 'WORTHLESS' as used in the story ?
- (1) Barren (2) Significant  
(3) Useless (4) Abolished  
(5) Adopted
10. As mentioned in the story, the father gave gifts to his sons because .....
- (1) he didn't want them to fight in his absence.  
(2) they had demanded those gifts from him.  
(3) those were the only gifts he could afford at that time.  
(4) he was trying to take revenge on them by giving gifts which were of no use.  
(5) Other than those given as options

**Directions (11-20) :** Read the sentence to find out whether there is any grammatical error in it. The error, if any, will be in one part of the sentence. Mark the part with the error as your answer. If there is no error, mark 'No error' as your answer. Ignore the errors of punctuation, if any.

11. While on a cruise to Hawaii, (1)/ Donna passed the time (2)/ by writing (3)/ a note to her friend. (4)/ No error (5)
12. One night, (1)/ when Raman was about sleep, (2)/ he heard a rustling sound of (3)/ leaves coming from outside. (4)/ No error (5)
13. A long time ago, there (1)/ was a demon who (2)/ loved to ate vegetables, (3)/ especially green ones. (4)/ No error (5)
14. On middle of (1)/ the lake there (2)/ is a tiny island (3)/ covered with trees and bushes. (4)/ No error (5)
15. I realised that I (1)/ had lost my pen (2)/ as soon only I walked out (3)/ of my house to head to my office. (4)/ No error (5)
16. The boy and his mother was so poor (1)/ that each day, he would take (2)/ his basket and venture out (3)/ into the woods in search of food. (4)/ No error (5)
17. 'Lost in the Andes' is widely (1)/ regarded as author Carl Barks' (2)/ finest story, and was (3)/ his personally favourite too. (4)/ No error (5)
18. An octopus can (1)/ bust out of its aquarium (2)/ tank and find its way(3)/ back to the ocean. (4)/ No error (5)
19. Over the beginning, (1)/ the whole world was (2)/ filled with fertile lands (3)/ and beautiful gardens. (4)/ No error (5)
20. For seven years, (1)/ Ottie's brothers and sisters teased (2)/ her about (3)/ her missing teeth. (4)/ No error (5)

**Directions (21-30) :** In the given passage, there are blanks, each of which has been numbered. Against each, five words are suggested, out of which fits the blank appropriately. Find out the appropriate word in each case.

In the given passage, there are blanks, each of which has been numbered. Against each, five words are suggested, one of which fits the blank appropriately. Find out the appropriate word in each case.

Ramabai Ranade was one of the great social reformers of her time and a ...(21)... supporter of women's rights. She was born on 25th January, 1863. She was married to Mahadev Govind Ranade at the young age of eleven. She was twenty-one years younger than her husband. But the ...(22)... in age did not come in the way of young Ramabai understanding her husband. In no time she blossomed into the most ...(23)... partner for him. She had the curiosity to learn and had a great ...(24)... for knowledge. Mahadev Govind Ranade taught her to read and write Marathi and English for two hours every day. When Ramabai, with active cooperation and help from few ladies started a High School for girls, She was ...(25)... by endless opposition from the society. But, her husband gave all his support and after an endless struggle, the institution came into existence. The facility to set up an ...(26)... establishment at Nasik in 1875 helped Mahadev Govind Ranade to concentrate more in his mission. Ramabai, now an efficient house-wife, relieved Ranade of all the responsibilities of ...(27)... a home.

Ramabai founded the 'Seva Sadan Society' in Pune. Soon, it had many branches in Mumbai. The Sadan aimed at preparing good citizens, helping down-tridden and preparing them to lead a ...(28)... life. Ramabai extended a wing for nursing and medicine. Many upper-class widows and girls started taking lessons from this institution. Many unfortunate were ...(29)... through this institution. Ramabai took active part in the suffrage movement. She was ever ready to help the needy and stranded woman. Any call for help and she was there with her hand of workers. She lost her husband in 1901. But she was not disheartened. After a year she began her work again to continue it till her last breath.

Twenty-seven years of experience under the ... (30)... of her husband was of great help to her. Ramabai Ranade was a good writer in her own right. Her reminiscences and the autobiography are a brilliant record of the social conditions of her time. She passed away in 1924.

21. (1) retired (2) staunch  
(3) trust (4) surely  
(5) hectic
22. (1) indifference (2) disproportionate  
(3) disparity (4) consist  
(5) integrity
23. (1) fitting (2) accepting  
(3) seemingly (4) rightfully  
(5) troublesome
24. (1) thirst (2) tide  
(3) expectation (4) lustre  
(5) courage
25. (1) resisted (2) opposed  
(3) lacked (4) confronted  
(5) strain
26. (1) individual (2) originally  
(3) unique (4) expanded  
(5) typical
27. (1) manage (2) gaining  
(3) sprinting (4) running  
(5) ruining
28. (1) driven (2) fulfil  
(3) commitment (4) purposeful  
(5) ambition
29. (1) refurnished (2) restore  
(3) rehabilitated (4) renew  
(5) unauthorised
30. (1) advice (2) guidance  
(3) council (4) pressurise  
(5) shadow

### PART - II : REASONING

31. Point D is 25 m towards east of Point R. Point D is 15 m towards north of Point P. Point P is 7 m towards east of Point T. Point T is 15 m towards south of Point K. How far and in which direction is Point K from Point R ?  
(1) 15 m towards South-West  
(2) 15 m towards East  
(3) 18 m towards West  
(4) 18 m towards East  
(5) Other than those given as options

**Directions (32-35) :** Study the following arrangement carefully and answer the given questions.

KJ & @ P G £ U X 6 π R T 8 © 7 β 9 A Y \* \$ L 3 # % 2 S + Z Ω 5 H

32. How many such letters are there in the given arrangement, each of which is immediately followed by a number and immediately preceded by a symbol ?  
(1) One (2) Two  
(3) More than three (4) Three  
(5) None

33. If all the numbers are dropped from the arrangement then which one of the following will be the thirteenth element from the right end of the given arrangement ?  
(1) T (2) β (3) ©  
(4) Y (5) \*
34. Which of the following is seventh element to the left of the eighteenth element from the left end of the given arrangement ?  
(1) X (2) π (3) T  
(4) © (5) Other than those given as options
35. How many such symbols are there in the given arrangement between the ninth element from the left end and the tenth element from the right end ?  
(1) Six (2) Four (3) Three  
(4) Five (5) Other than those given as options
36. What should come in place of question mark (?) in the following series based on the given arrangement ?  
H5K ZS & %LG \*β6 (?)  
(1) βXT (2) ©6T (3) βX©  
(4) ©6© (5) Other than those given as options
37. Four of the following five are alike in a certain way based on the English alphabetical order and so form a group. Which is the one that does not belong to that group ?  
(1) VZX (2) LFN (3) IMK  
(4) DHF (5) KOM

**Directions (38-42) :** Study the following information and answer the given questions.

Seven people namely P, Q, R, S, T, U and V play seven different games, not necessarily in the same order, starting from Monday and ending on Sunday of the same week.

T plays a game on one of the days before Wednesday. Only three people play between T and P. As many people play a game between P and S as between S and Q. Neither Q nor R plays a game on Wednesday. R plays immediately before U.

38. Which of the following pairs represent those who play a game immediately before and immediately after P ?  
(1) V, T (2) V, S (3) P, S  
(4) U, S (5) V, Q
39. Who amongst the following plays a game on Saturday ?  
(1) U (2) P (3) R  
(4) S (5) Q
40. On which of the following days does V play a game ?  
(1) Sunday (2) Friday (3) Tuesday  
(4) Wednesday (5) Thursday
41. Four of the following five are alike in a certain way as per the given arrangement and hence form a group. Which of the following does not belong to that group ?  
(1) PV (2) UV (3) QS  
(4) PU (5) RT
42. Which of the following statements is true as per the given arrangement ?  
(1) R plays a game on Wednesday.  
(2) S Plays a game immediately after V.  
(3) Only two people plays a game between V and Q.  
(4) Only one person plays a game after P  
(5) None of the given options is true

**Directions (43-47):** Study the given information carefully to answer the given questions.

Eight people—M, N, O, P, W, X, Y and Z are sitting in a straight line facing north with equal distance between each other, but not necessarily in the same order.

- Only five people sit between X and Z. Z does not sit at any of the extreme ends of the line.
- P sits third to the left of M. More than two people sit between M and X. M is not an immediate neighbour of Z.
- Y sits to the immediate right of N. Neither N nor Y is an immediate neighbour of M.
- O is not an immediate neighbour of N.

43. How many persons are seated between N and M ?

- (1) Two                      (2) Three                      (3) One  
(4) Five                      (5) Four

44. What is position of Z with respect to Y ?

- (1) Fourth to the right      (2) Fifth to the right  
(3) Fifth to the left        (4) Fourth to the left  
(5) Third to the right

45. Which of the following pairs sits at the extreme end of the line ?

- (1) Z, X                      (2) P, Y                      (3) P, X  
(4) Z, Y                      (5) P, O

46. Which of the following is true with respect to W as per the given arrangement ?

- (1) W sits to the immediate left of M.  
(2) Only two people sit between Z and M.  
(3) W sits at extreme end of the line.  
(4) Z sits third to the left of W.  
(5) None of the given options is true.

47. Who among the following sits exactly between Z and M ?

- (1) O                      (2) P                      (3) W  
(4) Y                      (5) X

**Directions (48-52):** In these questions, two/three statements followed by two conclusions numbered I and II have been given. You have to take the given statements to be true even if they seem to be at variance from commonly known facts and then decide which of the given conclusions logically follows from the given statements ?

**Give answer :**

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

48. **Statements :** Some hammers are knives.

No knife is a sword.  
All swords are guns.

**Conclusions :** I. All guns can never be knives.  
II. No hammer is a sword.

**Statements (49-50) :** All locks are keys.

All keys are handles.

49. **Conclusions :** I. All locks are handles.

II. All handles are keys.

50. **Conclusions :** I. No lock is a key.

II. All Handles are locks.

51. **Statements :** Some innovations are technologies.

All technologies are experiments.

Some experiments are theories.

**Conclusions :** I. No technology is a theory.

II. Atleast some innovations are experiments.

52. **Statements :** All chapters are books.

All books are novels.

No novel is a fiction.

**Conclusions :** I. All chapters are novels.

II. No book is a fiction.

**Directions (53-57):** These questions are based on five words given below.

OWL LOG MIX PUT DEN

53. How many letters are there in the English alphabetical series between the first letter of the word which is fourth from the right and the first letter of the word which is third from the left of the given words ? (The counting is done from left to right)

- (1) Two                      (2) Five                      (3) One  
(4) Three                      (5) Other than those given as options

54. If in each of the given words, each of the consonants is changed to previous letter and each vowel is changed to next letter in the English alphabetical series. In how many words thus formed will no vowel appear ?

- (1) More than three      (2) One  
(3) Two                      (4) Three  
(5) None

55. If the given words are arranged in the order as they would appear in a dictionary from left to right, which of the following will be fourth from the left end ?

- (1) PUT                      (2) DEN                      (3) LOG  
(4) OWL                      (5) MIX

56. If the third alphabet in each of the words is changed to the next alphabet in the English alphabetical series, how many words will be formed in which two or more vowels appear (same or different vowels) ?

- (1) None                      (2) One                      (3) Three  
(4) Two                      (5) Four

57. If the positions of the first and the second alphabet in each word is interchanged, which of the following will form a meaningful English word ?

(1) None of the given words will form meaningful English words

- (2) Only LOG                      (3) Only PUT  
(4) Both LOG and MIX      (5) Both DEN and PUT

**Directions (58-62):** Study the following information carefully and answer the given questions.

Eight people viz. U, V, P, O, K, J, A and B are sitting around a square table such that four people sit at the four corners of the table and four people sit in the middle of each of the four sides. The ones sitting at the corners of the table are facing the centre and the others sitting in the middle of the sides are facing outside (i.e., opposite to the centre).

- V is an immediate neighbour of P. P sits at one of the corners of the table. Only three people sit between A and O. A sits in one of the middle sides of the table. O is not an immediate neighbour of P. Only one person sits between B and O. There are two persons between K and O. J sits to the immediate right of B.
58. Four of the following five are alike in a certain way based on the given arrangement and thus form a group. Which one of the following does not belong to the group ?  
 (1) V (2) B  
 (3) P (4) A  
 (5) O
59. Who sits to the immediate right of V ?  
 (1) A (2) U  
 (3) O (4) P  
 (5) J
60. How many people sit between A and O when counted from the right of A ?  
 (1) Three  
 (2) More than three  
 (3) Two  
 (4) None  
 (5) One
61. Which of the following statements is true about J as per the given arrangement ?  
 (1) J sits to the immediate right of A.  
 (2) V sits second to the left of J.  
 (3) J faces outside.  
 (4) Only two people sit between J and V.  
 (5) None of the given options is true
62. Which of the given pairs represent the immediate neighbours of B ?  
 (1) O, J (2) J, U  
 (3) A, O (4) P, K  
 (5) J, K
63. In a certain code language, 'UNCLE' is coded as 'TOBMD', similarly 'DAILY' is coded as 'CBHMX'. How will 'SERUM' be coded in the same code language ?  
 (1) RFQVL (2) ROFLV  
 (3) TFSVN (4) RGQWL  
 (5) Other than those given as options

64. Which of the following expressions will be definitely false if the given expression ' $M \leq O \leq D = E \geq R > N$ '; ' $D \leq B$ ' are definitely true ?  
 (1)  $N < B$  (2)  $M \leq B$   
 (3)  $E \leq B$  (4)  $R \leq D$   
 (5)  $O > N$
65. T is married to P. P is the mother of K. K is the brother of S. S is the daughter-in-law of G. Y is the only child of G. How is Y related to T ?  
 (1) Son-in-law  
 (2) Father  
 (3) Father-in-law  
 (4) Nephew  
 (5) Other than those given as options

### PART - III QUANTITATIVE APTITUDE

66. The unit's digit of a 2-digit number (X) is 5. When 27 is subtracted from X, the digits of the 2-digit number so formed get reversed, what is the value of X ?  
 (1) 55 (2) 35  
 (3) 85 (4) 65  
 (5) Other than those given as options
- Directions (67-71):** What will come in place of question mark (?) in the given number series ?
67. 7 25 61 115 ? 277  
 (1) 197 (2) 187 (3) 181  
 (4) 185 (5) 197
68. 9 14 24 41 67 ?  
 (1) 112 (2) 104 (3) 108  
 (4) 96 (5) 110
69. 18 9 9 13.5 ? 67.5  
 (1) 33 (2) 36 (3) 21  
 (4) 24 (5) 27
70. 15 24 35 50 71 ?  
 (1) 90 (2) 108 (3) 100  
 (4) 98 (5) 110
71. 4 5 12 39 160 ?  
 (1) 845 (2) 830 (3) 820  
 (4) 785 (5) 805
72. A retailer bought a table after getting a discount of 30% on the labelled price. He sold the table to a customer for ₹ 4830/- and earned a profit of 50% on his cost price. What was the initial labelled price of the table ?  
 (1) ₹ 4200/- (2) ₹ 5200/-  
 (3) ₹ 4800/- (4) ₹ 4500/-  
 (5) Other than those given as options

73. If the diameter of a circle of area  $452 \frac{4}{7} \text{ cm}^2$  is equal to the radius of another semicircle, what is the perimeter of the semicircle ? (in cm)  
 (1)  $150 \frac{3}{4}$  (2)  $224 \frac{4}{11}$   
 (3)  $134 \frac{4}{9}$  (4)  $123 \frac{3}{7}$   
 (5) Other than those given as options
74. A jar contains 80 litre mixture of milk and water in the respective ratio of 7 : 3. How much more water should be added to the mixture to get a new mixture having milk and water in the respective ratio of 8 : 5 ?  
 (1) 11 litre (2) 5 litre  
 (3) 7 litre (4) 10 litre  
 (5) 9 litre

**Directions (75-84):** What should come in place of question mark (?) in the given questions ?

75.  $2^2 \times \sqrt{1024} = 209 + 38 \times 2 - 7$   
 (1) -4 (2) 2 (3) -3  
 (4) 3 (5) -2
76.  $97 - 238 \div 14 = ? \div 5$   
 (1) 580 (2) 400 (3) 500  
 (4) 360 (5) 450
77.  $6 + 144 \div 4.8 \div 0.6 = ?$   
 (1) 92 (2) 56 (3) 75  
 (4) 84 (5) 76
78.  $\frac{\sqrt{15 + 24 \times 0.5}}{\sqrt{10.2 + ?}} = 3$   
 (1) 2.4 (2) 5.7 (3) 1.7  
 (4) 3.4 (5) 6.8
79. 50% of  $480 + 12^2 = ?$   
 (1) 337 (2) 315 (3) 384  
 (4) 349 (5) 350
80.  $\sqrt{? \times 6^2} = 60\% \text{ of } (5^2 \times 2)$   
 (1) 54 (2) 32 (3) 40  
 (4) 34 (5) 25
81.  $(17 \times 10 - 19 \times 5) \div 5 = ?$   
 (1) 24 (2) 32 (3) 18  
 (4) 15 (5) 20
82.  $\sqrt{2 + \frac{1}{144}} \div \sqrt{\left(1 + \frac{49}{576}\right)} \times 2 \frac{7}{34} = ?$   
 (1) 3 (2) 27 (3) 6  
 (4) 9 (5) 15
83.  $65 \times 9 \div ? - 101 = \sqrt{256}$   
 (1) 4.5 (2) 4 (3) 18  
 (4) 3 (5) 5

84.  $\left(7\frac{1}{7} + 7\right) \times 2 = ?$

(1)  $29\frac{1}{7}$  (2)  $26\frac{2}{7}$  (3)  $21\frac{3}{7}$

(4)  $25\frac{5}{7}$  (5)  $28\frac{2}{7}$

85. A car travelling at a Y km/h speed, takes 30 minutes to travel X kilometre. The same car travelling at the same speed (Y km/h) takes 45 minutes to travel X + 30 km. What is the value of X?

(1) 45 (2) 60

(3) 75 (4) 55

(5) Other than those given as options

86. A and B together can complete a given work in 9 days. A alone takes 24 days less than B alone takes to complete this work. How many days will B alone take to complete this work?

(1) 36 (2) 42

(3) 45 (4) 54

(5) Other than those given as options

87. A starts a business by investing ₹ 3500/-. Six months after the start of business, B joins A with an investment of ₹ X. If the total annual profit is ₹ 7600/- and A's share of the profit is ₹ 5600/-. What is the value of X?

(1) 4000 (2) 2750

(3) 4500 (4) 3600

(5) Other than those given as options

88. The total cost of 11 chairs and 8 tables is ₹ 9,450/-. If the cost of one chair is equal to  $\frac{1}{3}$ rd of the cost of each table, what is the total cost of 6 chairs?

(1) ₹ 1960/- (2) ₹ 1540/-

(3) ₹ 1580/- (4) ₹ 1620/-

(5) Other than those given as options

89. From her monthly pocket money, Chinu spends  $\frac{1}{3}$ rd on an amusement park. Chinu spends the remaining money in the ratio of 4 : 1 on her tuition fees and on buying books respectively. If she spends ₹ 2400/- on buying books, what was her monthly pocket money?

(1) ₹ 12000/- (2) ₹ 18000/-

(3) ₹ 15000/- (4) ₹ 20000/-

(5) Other than those given as options

Directions (90-94): Study the table and answer the given questions.

Number of pens sold by 5 stores-A, B, C, D and E on 5 days.

Store \ Day	A	B	C	D	E
Monday	120	135	114	130	150
Tuesday	125	125	118	134	154
Wednesday	155	115	120	132	160
Thursday	115	140	125	135	130
Friday	102	105	115	160	110

90. What is the respective ratio between the total number of pens sold by Store B on Monday and Wednesday together and that by store A on the same days together?

(1) 10 : 11 (2) 6 : 7

(3) 12 : 13 (4) 15 : 17

(5) Other than those given as options

91. Number of pens sold by store D on Monday was what percent less than that by the same store on Friday?

(1) 15.5 (2) 12.25 (3) 18

(4) 25 (5) 18.75

92. If the number of pens sold by store D and E on Saturday was 20% less and 10% more respectively than that on Thursday, what was the total number of pens sold by stores D and E on Saturday?

(1) 310 (2) 251

(3) 242 (4) 276

(5) Other than those given as options

93. What is the average number of pens sold by store C on Monday, Tuesday and Thursday?

(1) 120 (2) 118 (3) 117

(4) 121 (5) 119

94. What is the difference between the total number of pens sold by stores B and E together on Tuesday and that by the same stores together on Friday?

(1) 68 (2) 64 (3) 74

(4) 58 (5) 71

95. A boat takes  $7\frac{1}{2}$  hours to travel 75 km upstream. The boat's speed in still water is 5 times the stream's

speed. If the speed of the stream is doubled, what distance would this boat cover downstream in 4 hours? (in km)

(1) 84 (2) 70

(3) 64 (4) 75

(5) Other than those given as options

96. The simple interest earned on a certain sum (₹ P) when invested for three years @ 7% p.a. is equal to the simple interest earned when ₹ P - 1500 is invested for five years @ 6% p.a. What is the value of P? (in ₹)

(1) 5000 (2) 4500 (3) 4000

(4) 3000 (5) 6000

97. The compound interest (compounded annually) on a certain sum of money for 2 years @ 20 p.c.p.a. is ₹ 1496/-. What would be the simple interest on the same sum of money for 3 years @ 11 p.c.p.a.?

(1) ₹ 1164 (2) ₹ 1096

(3) ₹ 1122 (4) ₹ 1024

(5) Other than those given as options

98. Perimeter of a square, whose diagonal is  $43\sqrt{2}$  m, is equal to the perimeter of a rectangle. If the difference between length and breadth of the rectangle is 8 m, what is the area of the rectangle? (in m<sup>2</sup>)

(1) 1362 (2) 1787

(3) 1540 (4) 1487

(5) Other than those given as options

99.  $\frac{7}{9}$ th of the boys and  $\frac{8}{13}$ th of the girls of a school participated in a

marathon. If the number of participating students is 238, out of which 112 are girls, what is the difference between number of boys and number of girls in the school?

(1) 20 (2) 35

(3) 40 (4) 30

(5) Other than those given as options

100. The average weight of A, B and C is 20 kg. Weight of A is four times of that of B, and weight of C is 21 kg less than A's weight. What is A's weight? (in kg)

(1) 40 (2) 24 (3) 36

(4) 32 (5) 28