Practice Set-1

ENGLISH LANGUAGE

Directions (Q. No. 1 to 10): Read the following passage carefully and answer the questions given below it. Certain words are printed in *BOLD* to help you locate them while answering some of the questions.

The Sun, while going on his daily rounds saw a princess and fell in love with her. Whenever he could slip away from the heavens, he would take human form and go down to the princess to spend some time with her. The princess too became quite fond of him and would wait for him to come. One day, the Sun decided to send her a blood-red ruby as a **token** of his love for her. He put the gem in a silk, bag, and calling a crow that was flying past, asked the bird to deliver the gem to his beloved. Crows had milky white feathers in those days and it was considered **auspicious** if a crow came anywhere near you. So the Sun was pleased that he had found a crow to deliver the gem. As the crow sped through the sky with the silken bag, the aroma of food lured him. Looking down the crow saw that a wedding feast was in progress, and immediately it was distracted from its mission. Food was one thing it could never resist!

Alighting on a tree nearby, it hung the bag on a twig and went off to find some food. While the crow was feasting, a merchant passing by saw the bag on the tree, and knocked it down with a pole. When he opened the bag and saw its contents, he almost swooned in joy. Quickly pocketing the ruby, he filled the bag with dry cow dung that was lying there, and then **deftly** returned the bag to the branch. It was all done so quickly that the crow missed all the action. After having its fill, it flew up to the tree, and picking up the bag took it to the person it was intended for. The princess was in the garden. When the crow gave her the bag, she took it eagerly, knowing that it was from the Sun. But when she saw its contents, she reeled back in shock and anger. Believing that it was the Sun's way of telling her that he did not care for her, she flung the bag away, rushed to her palace, and never came out again. When the Sun learnt of what had happened he was **furious**. So great was his anger that when he turned his **scorching** gaze on the crow, its feathers were burned black. Its feathers have been black ever since. The ruby did not stay with the man who stole it. It fell out of his pocket and rolled into a deep pit. Men have been trying to dig it out ever since. Many precious stones have been found in the process, making Myanmar one of the richest sources of rubies and sapphires, but the ruby that the Sun sent to the princess is yet to be found.

1. What did the Sun send for the princess as a token of his love?
 (a) He sent her the crow.
 (b) He sent her dry cow dung.
 (c) He sent her a red ruby.
 (d) He gifted her the city of Myanmar.
 (e) None of these

2. While on its way to the princess, the crow was distracted by
 (a) The merchant calling out to him.
 (b) The wedding that was taking place below.
 (c) The ruby that the Sun sent for the princess.
 (d) The temptation of the smell of food.
 (e) The huge crowd at the wedding.

3. Why did the Sun send his gift for the princess along with the crow?
 (a) The princess loved crows.
 (b) The crow was the only bird available at the time.
 (c) The crow was considered to be an auspicious bird.
 (d) The crow knew where the princess lived.
 (e) The Sun trusted the crow.

4. How did the crow get its black colour?
 (a) The crow was punished by the Sun for its clumsiness.
 (b) The crow was burned black by the scorching gaze of the angry Sun.
 (c) The crow was not considered auspicious any more.
 (d) The crow was cursed by the merchant.
 (e) None of these

5. What could be an appropriate title for the story?
 (a) The Careless Black Crow
 (b) Myanmar and its Mineral Riches
 (c) The Sun and the Princess
 (d) The Depressed Princess
 (e) The Sun and the Ruby

Directions (Q. No. 6 to 8): Choose the word which is most nearly the *SAME* in meaning as the word printed in *BOLD* as used in the passage

6. Token
 (a) Symbol   (b) Insurance
 (c) Slip   (d) Assurance
 (e) Investment

7. Deftly
 (a) Skillfully   (b) Blindly
 (c) Eagerly   (d) Rightfully
 (e) Innocently

8. Auspicious
 (a) Religious   (b) Lucky
 (c) Fulfilling   (d) Charming
 (e) Normal

Directions (Q. No. 9 to 10): Choose the word which is most *OPPOSITE* in meaning of the word printed in *BOLD* as used in the passage.

9. Scorching
 (a) Cool   (b) Heated
 (c) Warm   (d) Silent
 (e) Composed

10. Furious
   (a) Beaming   (b) Angry
   (c) Forgiving   (d) Calm
   (e) Sulking

Directions (Q. No. 11 to 15): Read each sentence to find out whether there is any grammatical 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 no error, the answer is i.e. 'No Error' (Ignore the errors of punctuation, if any.)

11. When we (a)/ reached the shops, (b)/ we find that (c)/ they were all closed. (d)/ No Error (e)

12. Poor people (a)/ has no money (b)/ therefore they cannot afford (c)/ proper medical facilities. (d)/ No Error (e)

13. The course is for (a)/ something who is interested (b)/ in learning (c)/ about computers. (d)/ No Error (e)

14. We were surprised (a)/ that she participated (b)/at the performance (c)/ held at NCPA. (d)/ No Error (e)

15. As soon as (a)/ I getting my (b)/ first salary (c)/ I spent all my money. (d)/ No Error (e)

Directions (Q. No. 16 to 20): Pick out the most effective word from the given words to fill in the blanks to make the sentence meaningfully complete.

16. I was annoyed _____ John for arriving late.
   (a) on   (b) about
   (c) by   (d) for
   (e) with

17. We are_____the possibility of buying our own house.
   (a) judging
   (b) initiating
   (c) threatening
   (d) applying
   (e) considering

18. The student did not pay_____to the instructions that were given to her in class.
   (a) ear   (b) awareness
   (c) notice (d) attention
   (e) closure

19. The young boy was unhurt _____ for a minor injury to his knee.
   (a) less   (b) except
   (c) also   (d) just
   (e) while

20. There is a _____ chance of seeing her again _____ she leaves.
   (a) perhaps, when
   (b) also, as
   (c) little, before
   (d) full, therefore
   (e) more, after

Direction (Q. No. 21 to 25): In each question below four words which are numbered(a), (b), (c), (d) has been printed, of which one word may be wrongly spelt. The number of that word is the answer. If all the four words are correctly spelt, mark i.e. "ALL CORRECT" as the answer.

21. (a) Accept   (b) Reciept
    (c) Frequent (d) Gesture
    (e) All Correct

22. (a) Justise   (b) Practice
    (c) Menace   (d) Variance
    (e) All Correct

23. (a) Complaint (b) Alerted
    (c) Cheated   (d) Hunged
    (e) All Correct

24. (a) Remorse   (b) Noble
    (c) Upsurge   (d) Incline
    (e) All Correct

25. (a) Blister
    (b) Warrant
    (c) Arrest
    (d) Mannual
    (e) All Correct

Directions (Q. No. 26 to 30): In the following passage, there are blanks, each of which has been numbered. These numbers are printed below the passage and against each, five words are suggested, one of which fits the blank appropriately. Find out the appropriate word in each case.

Once upon a time a peacock and a tortoise became great friends. The peacock lived on a tree on the … (26)… of the stream in which the tortoise had his home; and daily the peacock after he had a drink of water danced near the stream and displayed his gay plumage for the amusement of his … (27)... One unfortunate day, a bird-catcher who was on the … (28)… caught the peacock and was about taking him away to the market. The unhappy bird … (29)… of his captor to allow him to bid his friend the tortoise good-bye, as it would be the last time he would see him. The bird catcher gave in to his …(30)… and took him to the tortoise. The tortoise was in tears to see his friend held.

26. (a) fence   (b) brim
   (c) banks   (d) base
   (e) outlet

27. (a) son   (b) master
   (c) friend   (d) foe
   (e) slave

28. (a) prowl   (b) guard
   (c) rounds   (d) duty
   (e) alert

29. (a) retailated (b) requested
   (c) ordered   (d) begged
   (e) commanded

30. (a) requested (b) wish
   (c) dream   (d) command
   (e) none of the above

NUMERICAL ABILITY

31. A started a business with an investment of ₹ 16000. After 2 months B also became his partner and invested $\frac{5}{8}$th of the amount invested by A. Again after 2 more months C entered into the partnership with ₹ 8000. After 10 months they had a profit of ₹ 6336. Find the share of B in the profit.
   (a) ₹ 1760   (b) ₹ 1670
   (c) ₹ 1780   (d) ₹ 1680
   (e) ₹ 1790

32. A can do a piece of work in 14 days. Other person B is 20% more efficient than A. In how many days will A and B together complete the same piece of work?
   (a) $9\frac{10}{11}$ days   (b) $10\frac{10}{11}$ days
   (c) 12 days   (d) $12\frac{10}{11}$ days
   (e) 13 days

33. The ratio of monthly salaries of X and Y is 6 : 5. If the salary of X is increased by 25% and that of Y by 15%, what will be the new ratio of their resulting salaries?
   (a) 18 : 19   (b) 15 : 13
   (c) 30 : 21   (d) 30 : 46
   (e) 30 : 23

34. Rashmi sold an article at a loss of 10%. If she had sold the article for ₹ 90 more, she would have received a gain of 10%. Find the cost price of the article.
    (a) ₹ 475   (b) ₹ 460
    (c) ₹ 420   (d) ₹ 450
    (e) ₹ 465

35. The amount invested in scheme A at 20% per annum compound interest for two years is 1.5 times that invested in scheme B at 10% per annum for the same period. The interest is compounded annually in both the schemes. The compound interest received from scheme A is ₹ 2025 more than that from scheme B. Find the amount invested in scheme A.
    (a) ₹ 6750   (b) ₹ 4500
    (c) ₹ 4400   (d) ₹ 6600
    (e) ₹ 4750

36. A certain quantity of rice bought at ₹ 40 per kg was mixed with 20 kg rice of other variety bought at ₹ 60 per kg. The mixture was sold at ₹ 58 per kg and a proft of 20% was earned. What quantity of rice at ₹ 40 per kg was mixed?
    (a) 24 kg   (b) 28 kg
    (c) 27 kg   (d) 25 kg
    (e) 29 kg

37. The average marks obtained by Mithun in Sanskrit, Science and Social Science was 68. But erroneously the marks of each was taken as 72 instead of 81. The maximum marks of each subject was 120. Find the percentage of marks obtained by Mithun in nearest integer.
    (a) 62%   (b) 59%
    (c) 61%   (d) 55%
    (e) 63%

38. Parineeti spends $\frac{3}{11}$th part of her monthly salary on food grains and 28% on jewellery. She invests the remaining part of her salary in mutual fund and stock shares in the ratio 7 : 5. If her investment in

mutual fund is ₹ 22176, what is her monthly salary?
    (a) ₹ 82995.12   (b) ₹ 83995.12
    (c) ₹ 84995.12   (d) ₹ 80000
    (e) None of these

39. The sum of a number and seven times of it is equal to the product of 25.6 and 12.5. What will be one fourth of that number?
    (a) 16   (b) 12
    (c) 8   (d) 15
    (e) 10

40. The ratio of the side of a square and the diameter of a circle is 3 : 10. The circumference of circle is 220 metres. Find the area of the square.
    (a) 441 sq. metres
    (b) 361 sq. metres
    (c) 576 sq. metres
    (d) 625 sq. metres
    (e) 626 sq. metres

41. The age of Parul after 12 years will be 49 years. Jyoti is 5 years older than Parul. The ratio of the present ages of Jyoti and Charu is 6 : 9 respectively. What was the age of Charu 14 years ago?
    (a) 48 years   (b) 49 years
    (c) 47 years   (d) 46 years
    (e) 50 years

42. The simple interest on a certain sum at the rate of 12% per annum for 4 years is ₹ 1152. If the rate of interest is increased by 2% per annum. What will be the amount after 5 years on the same principal?
    (a) ₹ 4280   (b) ₹ 4800
    (c) ₹ 4080   (d) ₹ 4480
    (e) ₹ 4060

43. There are two branches X and Y of a company ABC. There were a total of 4500 employees in the company during 2011. In the year 2012, the number of employees in branch X was increased by 20% and that in branch Y by 15%. In 2012, total number of employees was 5300. How many employees were there in branch Y in the year 2011?

    (a) 1700   (b) 1900
    (c) 1800   (d) 2100
    (e) 2000

44. A certain sum is divided between Ram and Mohan in the ratio 14 : 9. Ram gets ₹ 3265 more than that of Mohan. Find the sum.
    (a) ₹ 15019   (b) ₹ 15109
    (c) ₹ 16019   (d) ₹ 10619
    (e) None of these

45. Suresh and Piyush start moving in opposite direction from the same place and at the same time. After 6 hours they are 366 km straight apart. The speed of Suresh is 4 kmph more than that of Piyush. Find the speed of Piyush in kmph.
    (a) 28   (b) 28.5
    (c) 27.5   (d) 29.5
    (e) 29.8

Directions (Q. Nos. 46–55): What value will come in place of the question mark (?) in each of the following questions?

46. 21% of ? + 16% of 3400 = 1286 – 427
    (a) 1500   (b) 150
    (c) 1400   (d) 1600
    (e) None of these

47. $\sqrt{6561} - \sqrt{2916} = (?)^3$
    (a) 2   (b) 6
    (c) 4   (d) 5
    (e) 3

48. 220% of 345 – 4.5% of 580 =?
    (a) 732.9   (b) 723.9
    (c) 713.9   (d) 731.9
    (e) 734.9

49. $\sqrt{2025} \div 135 \times 27 = ?$
    (a) 8   (b) 9
    (c) 11   (d) 10
    (e) 12

50. $\frac{1}{6}$ of $\frac{11}{3}$ of $\frac{36}{77}$ of $\frac{7}{15}$ of ? = 84
    (a) 2375   (b) 2370
    (c) 2730   (d) 2830
    (e) 2850

51. $2923 - 2666 \div 62 = 5 \times ?^2$

(a) 12 (b) 19

(c) 25 (d) 18

(e) 24

52. $1\dfrac{1}{3} - 1\dfrac{1}{6} = ? - 1\dfrac{1}{12} - \dfrac{1}{24}$

(a) $1\dfrac{7}{24}$ (b) $1\dfrac{5}{24}$

(c) $1\dfrac{1}{6}$ (d) $2\dfrac{7}{24}$

(e) $4\dfrac{7}{24}$

53. $21\dfrac{1}{15} \div \dfrac{4}{135} \times \dfrac{1}{6} = ?$

(a) 116.5 (b) 119.5

(c) 118 (d) 120.5

(e) 118.5

54. $(568.2 + 243.8) \div ? = 769.02 - 566.02$

(a) 5 (b) 6

(c) 4 (d) 3

(e) 2

55. $7^2 \times 3^3 + 14^2 = ?$

(a) 8.75 (b) 15.75

(c) 6.75 (d) 6.25

(e) 7.75

Directions (Q. Nos. 56–60): What will come in place of the question mark (?) in each of the following number series?

56. 2 15 64 195 392 ?

(a) 393 (b) 493

(c) 392 (d) 495

(e) 395

57. 7 12 22 37 57 ?

(a) 80 (b) 85

(c) 88 (d) 92

(e) 82

58. 8 10 23 73 297 ?

(a) 1492 (b) 1481

(c) 1491 (d) 1478

(e) 1581

59. 11 16 23 32 43 ?

(a) 66 (b) 64

(c) 52 (d) 58

(e) 56

60. 10 28 82 244 ?

(a) 830 (b) 725

(c) 735 (d) 740

(e) 730

Directions (Q. Nos. 61–65): Read the following table carefully to answer the questions given below it.

Number of employees in 5 departments of an Organisation in the given years

Department → Years↓	A	B	C	D	E
2010	120	270	190	220	300
2011	240	330	250	350	180
2012	340	280	370	290	170
2013	420	360	290	310	260
2014	320	280	320	260	320

61. The difference between the average number of employees in the department A and department C taking all the given years together is:

(a) 4 (b) 5

(c) 6 (d) 7

(e) 8

62. The respective ratio between the total number of employees in departments A and B in 2012 and that in departments D and E in 2014 is:

(a) 29 : 31 (b) 31 : 29

(c) 31 : 33 (d) 33 : 31

(e) 30 : 31

63. In which year was the total number of employees taking all the departments together was the highest?

(a) 2012 (b) 2014

(c) 2013 (d) 2011

(e) 2010

64. How many employees served in department D taking all the years together?

(a) 2012 (b) 1530

(c) 1340 (d) 1430

(e) 1620

65. By what percent increased the number of employees in department A in 2014 in comparison to that in the year 2010?

(a) 166.9% (b) 156.7%

(c) 171.3% (d) 172.5%

(e) 166.7%

66. Four of the following five are alike in a certain way based on their positions in the English alphabetical series and hence they form a group. Which one of the following does not belong to that group?

(a) RY (b) KO

(c) FK (d) NW

(e) PS

67. If each vowel of the word OBJECTS is changed to the next letter in the English alphabetical series and each consonant is changed to the previous letter in the English alphabetical series and then the alphabets thus formed are arraged in alphabetical order from left to right, which of the following will be sixth letter from the left?

(a) P (b) T

(c) S (d) R

(e) I

68. A person walks 7 metres towards south. After taking a left turn he walks 12 metres. Again he takes a left turn and walks 2 metres. What is the distance between the starting point and final point?

(a) 13 metres (b) 11 metres

(c) 17 metres (d) 14 metres

(e) 9 metres

Directions (Q. Nos. 69–70): Study the following information carefully and answer the questions given below:

There are five persons A, B, C, D and E, each having different height. E is shorter than only two persons. B is not the tallest. C is taller than A. C is shorter than B.

69. Who among the following is the tallest?

(a) C

(b) D

(c) E

(d) Cannot be determined

(e) None of these

70. Who among them is taller than only A?

(a) E (b) B

(c) D (d) C

(e) Cannot be determined

Directions (Q. Nos. 71–75): Study the following information carefully and answer the questions given below:

Eight persons (P, Q, R, S, T, U, V and W) are sitting aroud a circular table facing towards centre but not necessarily in the same order.

R is an immediate neighbour of T, three persons are sitting between R and V. Q is sitting second to the left of W. Only one person is sitting between W and S. U is not an immediate neighbour of S or T. W is not an immediate neighbour of R.

71. What is the position of R with respect to S on the basis of given sitting arrangement?
(a) Fourth to the left
(b) Third to the left
(c) Third to the right
(d) Second to the right
(e) Second to the left

72. How many persons are sitting between T and U if we move in clockwise direction starting from T?
(a) Four   (b) Three
(c) Five   (d) None
(e) Two

73. Four of the following five are alike in a certain way based on their positions in the given sitting arrangement and hence they form a group. Which one of the following does not belong to that group?
(a) RV   (b) UP
(c) QS   (d) WT
(e) UV

74. Which of the following statements is true regarding P on the basis of given sitting arrangement?
(a) P is sitting to the immediate right of T
(b) P is sitting exactly between S and T
(c) P is sitting third to the left of U
(d) P is sitting just opposite to W
(e) None is true

75. Who among the following is sitting third to the right of V?
(a) S   (b) Q
(c) R   (d) T
(e) U

Directions (Q. Nos. 76–80): In each of the questions below are given two statements followed by two conclusions numbered I and II. You have to take the two given statements to be true even if they seem to be at variance from commonly known facts. Read all the conclusions and then decide which of the given conclusions logically follows from the statements disregarding commonly known facts.

Give Answer:
(a) If only Conclusion I follows.
(b) If only Conclusion II follows.
(c) If either Conclusion I or II follows.
(d) If neither Conclusion I nor II follows.
(e) If both Conclusions I and II follows.

Directions (Q. Nos. 76–77):
Statements:
Some plays are shows.
All shows are theatres.

76. Conclusions:
I. All shows are plays.
II. No play is a theatre

77. Conclusions:
I. Some theatres are plays.
II. All theatres are plays.

Direction (Q. Nos. 78):
Statements:
All roads are paths.
No path is a bridge.

78. Conclusions:
I. Some bridges are roads.
II. Atleast some paths are roads.

Directions (Q. Nos. 79–80):
Statements:
Some colours are reds.
All reds are blacks.
No black is a white.

79. Conclusions:
I. Atleast some black are red.
II. No red is a white.

80. Conclusions:
I. Atleast some colours are black.
II. All whites are colours.

Directions (Q. Nos. 81–85): Study the following information carefully and answer the questions given below:

'very well earned respect' is written as 'fo mi la gu'.

'respect is always earned' is written as 'dc gu ml bm'.

'well being is essential' is written as 'bm hr la xf'.

'earned money being best' is written as 'zt qs mi xf'

81. Which of the following is the code for 'money'?
(a) zt   (b) qs
(c) mi   (d) xf
(e) zt or qs

82. In the given code language 'very essential' can be written as:
(a) fo la   (b) hr fo
(c) hr bm   (d) gu la
(e) fo dc

83. Which of the following may, represent 'always well respect'?
(a) la fo zt   (b) qs dc mi
(c) hr gu xf   (d) gu la dc
(e) fo dc bm

84. What does the code 'bm' stand for?
(a) is   (b) very
(c) money   (d) respect
(e) earned

85. Which of the following may represent ' la dc mi'?
(a) well earned respect
(b) best earned money
(c) earned always well
(d) essential very earned
(e) well being earned

Directions (Q. Nos. 86–90): Study the following information carefully and answer the questions given below:

R Ω 7 & 4 @ 2 E © X 8 U M β D Q # 3 N % 6 $ A 5 W 9 * L # K + Z.

86. What should come next in the following series based on the above arrangement?

R Ω Z 7 & +   4 @ K   2 E #?
(a) 8 U *   (b) © X L
(c) 8 M 9   (d) © 8 9
(e) M D W

87. If all the symbols are dropped from the above arrangement, which of the following will be eleventh from the right end?
   (a) M   (b) 3
   (c) D   (d) Q
   (e) N

88. How many such letters are there in the above arrangement, each of which is immediately preceded by a number and immediately followed by a symbol?
   (a) None   (b) One
   (c) Two   (d) Three
   (e) More than three

89. Four of the following five are alike in a certain way based on their positions in the above arrangement and hence they form a group. Which is the one that does not belong to that group?
   (a) © β 6   (b) D % *
   (c) E M %   (d) 8 Q A
   (e) Q $ L

90. Which of the following is eighth to the left of nineteenth from the left end of the above arrangement?
   (a) 8   (b) X
   (c) U   (d) M
   (e) D

Directions (Q. Nos. 91–95): Study the following questions are based on five words given below:

   GUT TOY DEN PAL DAM

(The new words formed after performing the mentioned operations may or may not necessarily be meaningful English words).

91. How many such pairs of letters are there in the word of higlighted in bold, each of which has as many letters between them in the word (in both forward and backward directions) as they have between them in the English alphabetlcal series?
   (a) None   (b) One
   (c) Two   (d) Three
   (e) Four

92. If in each of the words, all the alphabets are arranged in English alphabetical order within the word, how many words will begin with a Vowel?
   (a) None   (b) One
   (c) Two   (d) Three
   (e) More than three

93. If the first alphabet of each of the words is changed to the next alphabet. In the English alphabetical series, how many meaningful English words will be formed?
   (a) None   (b) Two
   (c) Three   (d) Four
   (e) One

94. If the given words are arranged in the order as they would appear in the dictionary from left to right, which of the following would be third from the left?
   (a) DAM   (b) TOY
   (c) GUT   (d) DEN
   (e) PAL

95. If in each of the given words, only the consonants are changed to the next letter in the English alphabetical series and the vowels are retained. In how many words thus formed will the vowels appear twice or more times? (Same or different Vowels):
   (a) Four   (b) Five
   (c) Three   (d) Two
   (e) One

Directions (Q. Nos. 96–100): Study the following information carefully and answer the questions given below:

A building has eight floors numbered one to eight, in such a manner that the ground floor is numbered one, the floor above it, numbered two and so on such that the topmost floor is numbered eight. One of the eight persons, viz, P, Q, R, S, T, U, V and W lives, on each floor, R lives on third numbered floor. Only two persons live between the floors immediately above the floor of Q. Only one person lives between the floors of T and U, T lives above U. Only one persons lives between the floors of R and S. S lives on any floor below the floor of T.

96. Who among the following lives on the fifth numbered floor?
   (a) S   (b) Q
   (c) W   (d) P
   (e) V

97. Who among the following lives exactly between the floors of R and S?
   (a) U   (b) P
   (c) V   (d) T
   (e) W

98. Who among the following lives on the topmost floor?
   (a) T   (b) Q
   (c) W   (d) R
   (e) V

99. Four of the following five are alike in a certain way and hence they form a group. Which one of the following does not belong to that group?
   (a) R   (b) V
   (c) P   (d) S
   (e) Q

100. How many persons live between the floors of Q and U?
   (a) None   (b) One
   (c) Two   (d) Three
   (e) Four

Answers with Explanations

ENGLISH LANGUAGE

1. (c) He sent her a red ruby.
2. (d) The temptation of the smell of food.
3. (c) The crow was considered to be an auspicious bird.

4. (b) The crow was burned black by the scorching gaze of the angry Sun.
5. (c) The Sun and the Princess.
6. (a) 7. (a) 8. (b) 9. (a) 10. (d)
11. (c) 12. (b) 13. (b) 14. (c) 15. (b)

16. (e) with
17. (e) considering
18. (d) attention
19. (b) except
20. (c) little, before

21. (b) **22.** (a) **23.** (d)

24. (e) All correct

25. (d)

26. (e) banks

27. (c) friend

28. (a) prowl

29. (d) begged

30. (a) request

NUMERICAL ABILITY

31. (a) B's investment

$$= ₹\left(\frac{5}{8} \times 16000\right)$$

$$= ₹\ 10000$$

Ratio of the shares of A, B and C

= Ratio of their equivalent capitals

$$= 16000 \times 10 : 10000 \times 8 : 8000 \times 6$$

$$= 160 : 80 : 48$$

$$= 10 : 5 : 3$$

Sum of ratios $= (10 + 5 + 3) = 18$

Total profit $= ₹\ 6336$

$$\therefore \text{B's share} = ₹\left(\frac{5}{18} \times 6336\right)$$

$$\therefore \qquad = ₹\ 1760$$

32. (b) Time taken by A = 24 days

B is 20% more efficient than A.

$\therefore$ Time taken by B

$$= \frac{100}{200} \times 24 = 20 \text{ days}$$

$\therefore$ (A + B)'s 1 day's work

$$= \frac{1}{24} + \frac{1}{20}$$

$$= \frac{5 + 6}{120} = \frac{11}{120}$$

So, A and B together complete the some work in

$$= \frac{120}{11} \text{ days}$$

$$= 10\frac{10}{11} \text{ days.}$$

33. (e) Ratio of new salaries of X and Y

$$= 6 \times \frac{125}{100} : \frac{5 \times 115}{100}$$

$$= 6 \times 5 : 23 = 30 : 23$$

34. (d) Let the C. P. of article = ₹ x

According to the question,

$$\frac{x \times 100}{100} - \frac{90x}{100} = 90$$

$$\Rightarrow \qquad \frac{20x}{100} = 90$$

$$\Rightarrow \qquad \frac{x}{5} = 90$$

$$\Rightarrow \qquad x = 90 \times 5$$

$$= ₹\ 450$$

35. (a) Investment in scheme B = ₹ x

$\therefore$ Amount invested in scheme A

$$= ₹\ 1.5\ x$$

$$\text{C.I.} = P\left[\left(1 + \frac{R}{100}\right)^n - 1\right]$$

According to questions

$$\therefore\ 1.5x\left[\left(1 + \frac{20}{100}\right)^2 - 1\right]$$

$$-x\left[\left(1 + \frac{10}{100}\right)^2 - 1\right] = 2025$$

$$\Rightarrow 1.5x\left[\left(1 + \frac{1}{5}\right)^2 - 1\right]$$

$$-x\left[\left(1 + \frac{1}{10}\right)^2 - 1\right] = 2025$$

$$\Rightarrow 1.5x \times \frac{11}{25} - \frac{x \times 21}{100} = 2025$$

$$\Rightarrow 1.5x \times 0.44 - x \times 21 = 2025$$

$$\Rightarrow \qquad 0.66x - 0.21x = 2025$$

$$\Rightarrow \qquad 0.45x = 2025$$

$$\therefore \qquad x = \frac{2025}{0.45}$$

$$= ₹\ 4500$$

$\therefore$ Investement in scheme A

$$= 4500 \times 1.5 = ₹\ 6750$$

36. (b) Let the weight of rice at ₹ 40 per kg to be mixed = x kg

$\therefore$ C.P. of $(x + 20)$ kg of rice

$$= x \times 40 + 60 \times 20$$

$$= ₹\ (40x + 1200)$$

Total S.P. $= (40 + 1200) \times \frac{120}{100}$

$$= (40x + 1200) \times \frac{6}{5}$$

$$= ₹\ (48x + 1440)$$

$$\therefore\ 48x + 1440 = 58(x + 20)$$

$$\Rightarrow 48x + 1440 = 58x + 1160$$

$$\Rightarrow\ 58x - 48x = 1440 - 1160$$

$$\Rightarrow \qquad 10x = 280$$

$$\therefore \qquad x = \frac{280}{10} = 28 \text{ kg.}$$

37. (b) Sanskrit + Natural Science + Social Science

$$= 3 \times 68 = 204 \text{ (which is incorrect.)}$$

Correct marks in these subjects

$$= 204 - 72 + 81 = 213$$

$\therefore$ Required percentage

$$= \frac{216}{360} \times 100 = 59\%$$

38. (c) Let the Parineeti's monthly income $= ₹\ x$

Expenditure on foodgrains and jewellery

$$= \frac{3x}{11} \times \frac{28x}{100}$$

$$= \frac{3x}{11} \times \frac{7x}{75}$$

$$= \frac{75x + 77x}{275}$$

$$= ₹\ \frac{152x}{275}$$

Remaining amount

$$= \left(x - \frac{152x}{275}\right)$$

$$= \frac{275 - 152x}{275}$$

$$= ₹\ \frac{123x}{275}$$

$\therefore$ Investment in mutual fund

$$= \frac{7}{12} \times \frac{123x}{275}$$

$$\therefore\ \frac{7}{12} \times \frac{123x}{275} = 22176$$

$$\Rightarrow\ x = \frac{22176 \times 12 \times 275}{7 \times 123}$$

$$= ₹\ 84995.12$$

39. (e) Let the number = x

According to question,

$$\therefore \qquad x + 7x = 25.6 \times 12.5$$

$$\Rightarrow \qquad 8x = 320$$

$$\Rightarrow \qquad x = \frac{320}{8} = 40$$

$\therefore \quad \dfrac{1}{4}$ of $40 = 40 \times \dfrac{1}{4}$

$\qquad\qquad = 10$

40. (a) Let the radius of circle $= r$

Circumference of circle

$\qquad\qquad = 220$ metres

$\therefore \qquad 2\pi r = 220$

$\Rightarrow \quad 2 \times \dfrac{22}{7} \times r = 220$

$\Rightarrow \qquad\qquad r = \dfrac{220 \times 7}{2 \times 22}$

$\qquad\qquad\quad = 35$ metres

Diameter $= 70$ metres

$\therefore$ Side of square

$= \dfrac{70}{10} \times 3 = 21$ metres

$\therefore$ Area of square $= 21 \times 21$

$= 441$ sq. metres.

41. (b) Parul's present age

$\qquad = (49 - 12) = 37$ years

Jyoti's present age

$\qquad = 37 + 5 = 42$ years

Jyoti : Charu $= 6 : 9$

$\qquad = 42 : 63$

$\therefore$ Charu's present age

$\qquad = 63$ years

$\therefore$ Charu's age 14 years ago

$\qquad = (63 - 14) = 49$ years

42. (c) Principal $= \dfrac{\text{S.I.} \times 100}{\text{Time} \times \text{Rate}}$

$= \dfrac{1152 \times 100}{4 \times 12} = ₹\, 2400$

New rate $= (12 + 2)\% = 14\%$

$= \dfrac{\text{P} \times \text{R} \times \text{T}}{100} = \dfrac{2400 \times 5 \times 14}{100}$

$= ₹\, 1680$

$\therefore$ Amount $= ₹(2400 + 1680)$

$\qquad = ₹\, 4080$

43. (e) Let number of employees in branch Y in 2011$= x$

$\therefore$ Employees in branch X

$= (4500 - x)$

According to question,

$\therefore \left(4500 - x\right) \times \dfrac{120}{100} + \dfrac{x + 115}{100} = 5300$

$\Rightarrow \; 540000 - 120x + 115x$

$\qquad\qquad = 530000$

$\Rightarrow \; 5x = 540000 - 530000 = 10000$

$\Rightarrow \quad x = \dfrac{10000}{5} = 2000$

44. (a) Let the Share of Ram be $14x$ and Share of Mohan be 9, respectively.

According to the question,

$14x - 9x = 3265$

$\Rightarrow \; 5x = 3265$

$\Rightarrow \; x = \dfrac{3265}{5} = 653$

$\therefore$ Total amount

$\qquad = ₹(14x + 9x) = ₹\, 23x$

$\qquad = 23 \times 653 = ₹\, 15019$

45. (b) Let the Speed of Piyush

$= x$ km/hr

Speed of Suresh

$= (x + 4)$ km/hr

$\therefore$ Distance $=$ Speed $\times$ Time

$x \times 6 + (x + 4)6 = 366$

$6x + 6x + 24 = 366$

$12x = 366 - 24 = 342$

$x = \dfrac{342}{12} = 28.5$ km/hr

46. (a) 21% of ? + 16% of 3400

$= 1286 - 427$

$\Rightarrow \dfrac{? \times 21}{100} + \dfrac{3400 \times 16}{100} = 859$

$\Rightarrow \dfrac{? \times 21}{100} + 544 = 859$

$\Rightarrow \dfrac{? \times 21}{100} = (859 - 544) = 315$

$\Rightarrow ? = \dfrac{315 \times 100}{21} = 1500$

47. (e) $(?)^3 = \sqrt{6561} - \sqrt{2916}$

$\qquad\qquad = 81 - 54$

$\Rightarrow (?)^3 = 27$

$\Rightarrow (?)^3 = (3)^3$

$\Rightarrow ? = 3$

48. (a) $? = 220\%$ of $345 - 4.5\%$ of 580

$= \dfrac{345 \times 220}{100} - \dfrac{580 \times 4.5}{100}$

$= 759 - 26.1 = 732.9$

49. (b) $? = \sqrt{2025} \div 135 \times 27$

$= \dfrac{45}{135} \times 27 = 9$

50. (c) $\dfrac{1}{6} \times \dfrac{11}{13} \times \dfrac{36}{77} \times \dfrac{7}{15} \times ? = 84$

$\Rightarrow ? = \dfrac{84 \times 6 \times 13 \times 77 \times 15}{11 \times 36 \times 7}$

$\qquad = 2730$

51. (e) $2923 - 2666 \times \dfrac{1}{62} = 5 \times (?)^2$

$\Rightarrow \; 2923 - 43 = 5 \times (?)^2$

$\Rightarrow \; 2880 = 5 \times ?^2$

$\Rightarrow \; (?)^2 = \dfrac{2880}{5} = 576$

$\therefore \; ? = \sqrt{576} \quad = 24$

52. (a) $\dfrac{4}{3} - \dfrac{7}{6} = ? - \dfrac{13}{12} - \dfrac{1}{24}$

$\Rightarrow \; ? = \dfrac{4}{3} - \dfrac{7}{6} + \dfrac{13}{12} + \dfrac{1}{24}$

$= \dfrac{32 - 28 + 26 + 1}{24}$

$= \dfrac{31}{24} = 1\dfrac{7}{24}$

53. (e) $? = 21\dfrac{1}{15} \div \dfrac{4}{135} \times \dfrac{1}{6}$

$= \dfrac{316}{15} \times \dfrac{135}{4} \times \dfrac{1}{6} = 118.5$

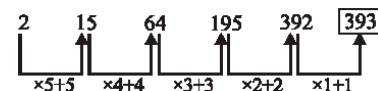**54. (c)** $(568.2 + 243.8) \div ?$

$= 769.02 - 566.02$

$\Rightarrow \dfrac{812}{?} = 203$

$\Rightarrow \; 203 \times ? = 812$

$\Rightarrow \; ? = \dfrac{812}{203} = 4$

55. (c) $? = \dfrac{7^2 \times 3^3}{14^2}$

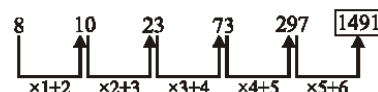$= \dfrac{7 \times 7 \times 3 \times 3 \times 3}{14 \times 14} = \dfrac{27}{4} = 6.75$
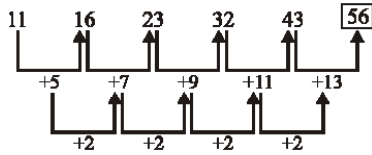
56. (a) The pattern of the given series is:

2   15   64   195   392   **393**

×5+5   ×4+4   ×3+3   ×2+2   ×1+1

57. (e) The pattern of the given series is:

7   12   22   37   57   **82**

+1×5   +2×5   +3×4   +4×5   +5×6

58. (c) The pattern of the given series is:

8   10   23   73   297   **1491**

×1+2   ×2+3   ×3+4   ×4+5   ×5+6

59. (e)

60. (e)
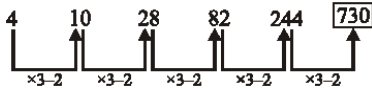
61. (a) Average of working employees for Department A

$$\Rightarrow \frac{(120 + 240 + 340 + 420 + 320)}{5}$$

$$= \frac{1440}{5} = 288$$

Average of working employees for Department C

$$\Rightarrow \frac{190 + 250 + 370 + 290 + 320}{5}$$

$$= \frac{1440}{5} = 284$$

Required Difference

$$= (288 - 284) = 4$$

62. (b) Required ratio
$$= (340 + 280) : (260 - 320)$$
$$= 620 : 580 = 31 : 29$$

63. (c) Total number of employees in the year 2010
$$\Rightarrow (120 + 270 + 190 + 220 + 300)$$
$$\Rightarrow = 1100$$
$$\Rightarrow \text{Total number of employees in the year 2011}$$
$$(240 + 330 + 250 + 350 + 180)$$
$$= 1350$$
$$\Rightarrow \text{Total number of employees in the year 2012}$$
$$(340 + 280 + 370 + 290 + 170)$$
$$= 1450$$
$$\Rightarrow \text{Total number of employees in the year 2013}$$
$$(420 + 360 + 290 + 310 + 260)$$
$$= 1640$$
$$\Rightarrow \text{Total number of employees in the year 2014}$$
$$(320 + 280 + 320 + 260 + 320)$$
$$= 1500$$

64. (d) Total number of employees in department D
$$= (220 + 350 + 290 + 310 + 260)$$
$$= 1430$$

65. (e) Percentage increase

$$= \frac{320 - 120}{120} \times 100$$

$$= \frac{200 - 100}{120} = 166.7\%$$

REASONING ABILITY

66. (b)

$$R \xrightarrow{+7} Y$$
$$\boxed{K \xrightarrow{+4} O}$$
$$F \xrightarrow{+5} K$$
$$N \xrightarrow{+9} W$$
$$P \xrightarrow{+3} S$$

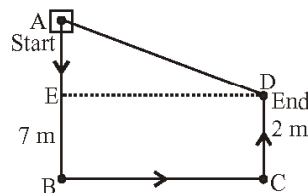Except KO, all other number have different of old numbers.

67. (d) According to question.

```
 O   B   J   E   C   T   S
+1↓ −1↓ −1↓ +1↓ −1↓ −1↓ −1↓
 P   A   I   F   B   S   R
```

Left A F D I P [R] S Right

6th from left

68. (a)

Required distance

$$AD = \sqrt{(AE)^2 + (ED)^2}$$

$$= \sqrt{(5)^2 + (12)^2}$$

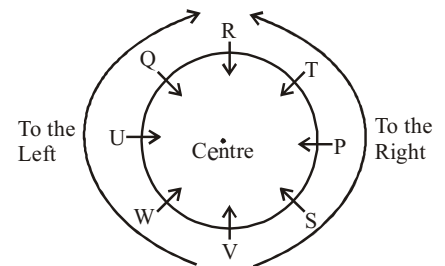$$= \sqrt{25 + 144}$$

$$= \sqrt{169} = 13 \text{ Metres}$$

Solutions of (Q. Nos. 69–70)

$$\boxed{D} > \boxed{B} > \boxed{E} > \boxed{C} > \boxed{A}$$

69. (b) Clearly, D is the tallest.
70. (d) Clearly, C is taller than only A.

Solutions for (Q. Nos. 71-75):

71. (c) R is third to the right S.

72. (a) There are four person-P, S, V and W between T and U.

73. (e) Except UV, in all others one person is sitting just opposite to the other person.

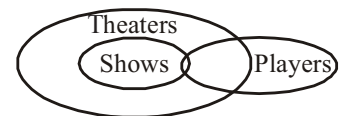**74. (b)** P is sitting to the immediate left of T.

P is sitting fourth to the left of U.

P is sitting just opposite to U.

75. (d) T is sitting third to the right of V.
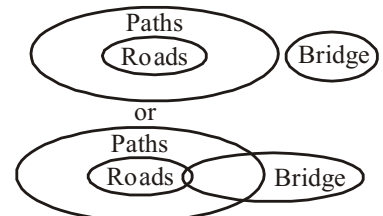
Solutions for (Q. Nos. 76-77):

According to statements

76. (d) Neither Conclusion I nor II follows.
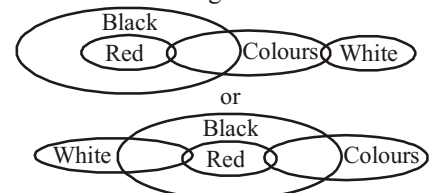
77. (a) Only Conclusion I follows.

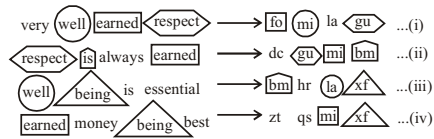**78. (b)** According to statements:

or

Only Conclusions II follows.

Solutions for (Q. Nos. 79–80):

According to statements.

or

79. (e) Both conclusion I and II follow.

80. (a) Only conclusion I follow.

Solutions for (Q. Nos. 81-85):

very (well) earned⟨respect⟩ ⟶ fo (mi) la ⟨gu⟩ ...(i)
⟨respect⟩ is always earned ⟶ dc ⟨gu⟩mi bm ...(ii)
(well) being is essential ⟶ bm hr (la) xf ...(iii)
earned money being best ⟶ zt qs mi xf ...(iv)

From equation (i) and (ii), respect ⇒ gu
From equation (i), (ii) and (iv), earned ⇒ mi
From equation (ii) and (iii), is ⇒ bm
From equation (i) and (iii), well ⇒ la
From equation (iii) and (iv), being ⇒ xf
From equation (i), very ⇒ fo
From equation (ii), always ⇒ de
From equation (iii), essential ⇒ hr
From equation (iv), money ⇒ zt or qs
          best ⇒ zt or qs

81. (e) The code for 'money' is 'zt' or 'qs'.

82. (b) The code of
         Very ⇒ fo
         The code of essential ⇒ hr

83. (d) The Code of
         always ⇒ dc
         The Code of well ⇒ la
         The Code of respect ⇒ gu

84. (a) The code of
         bm ⇒ is

85. (c) The code of
         la ⇒ well
         The Code of dc ⇒ always
         The Code of mi ⇒ earned

86. (b)

R $\xrightarrow{+2}$ 7 $\xrightarrow{+2}$ 4 $\xrightarrow{+2}$ 2 $\xrightarrow{+2}$ ©
Ω $\xrightarrow{+2}$ & $\xrightarrow{+2}$ @ $\xrightarrow{+2}$ E $\xrightarrow{+2}$ X
Z $\xrightarrow{-1}$ + $\xrightarrow{-1}$ K $\xrightarrow{-1}$ # $\xrightarrow{+2}$ L
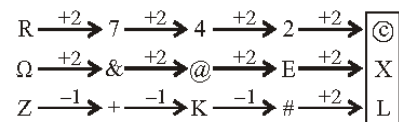
87. (d) According to question, the new sequence would be:

Left R 7 4 2 E X 8 U M D Q 3 N 6 A 5 W 9 L K Z Right
          11th from the right end
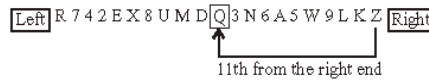
88. (c) Such combinations are:
         2 E© ; 3 N % (Two letters)

89. (e) © $\xrightarrow{+5}$ β $\xrightarrow{+7}$ 6
         D $\xrightarrow{+5}$ % $\xrightarrow{+7}$ p
         E $\xrightarrow{+5}$ M $\xrightarrow{+7}$ %
         8 $\xrightarrow{+5}$ Q $\xrightarrow{+7}$ A
         Q $\xrightarrow{+5}$ $ $\xrightarrow{+7}$ L

90. (a) 8th to the left of 19th from the left means 11th from the left, *i.e.*, 8.

91. (b) D E N
         Only one pair is DE.

92. (d) GUT ⇒ GTU
         TOY ⇒ OTY
         DEN ⇒ DEN
         PAL ⇒ ALP
         DAM ⇒ ADM
         Only three words begin with a vowel, i.e., OTY, ALP and ADM.

93. (e) GUT ⇒ HUT
         TOY ⇒ UOY
         DEN ⇒ EEN
         PAL ⇒ QAL
         DAM ⇒ EAM
         Only one meaningful word = HUT

94. (c) DAM → DEN → GUT → PAL → TOY
         So, third word from the left is GUT.

95. (a) GUY ⇒ HUU
         TOY ⇒ UOZ
         DEN ⇒ EEO
         PAL ⇒ QAM
         DAM ⇒ EAN

Solutions for (Q. Nos. 96-100):

Floor Number	Person
8	W
7	Q
6	V
5	P
4	T
3	R
2	U
1	S

96. (d) P lives on the fifth numbered floor.

97. (a) U lives between the floors of R and S.

98. (c) W lives on the topmost floor.

99. (b) Except V, all others live on odd numbered floors.

100. (e) Four persons – V, P, T and R live between the floors of Q and U.
         ❑❑❑