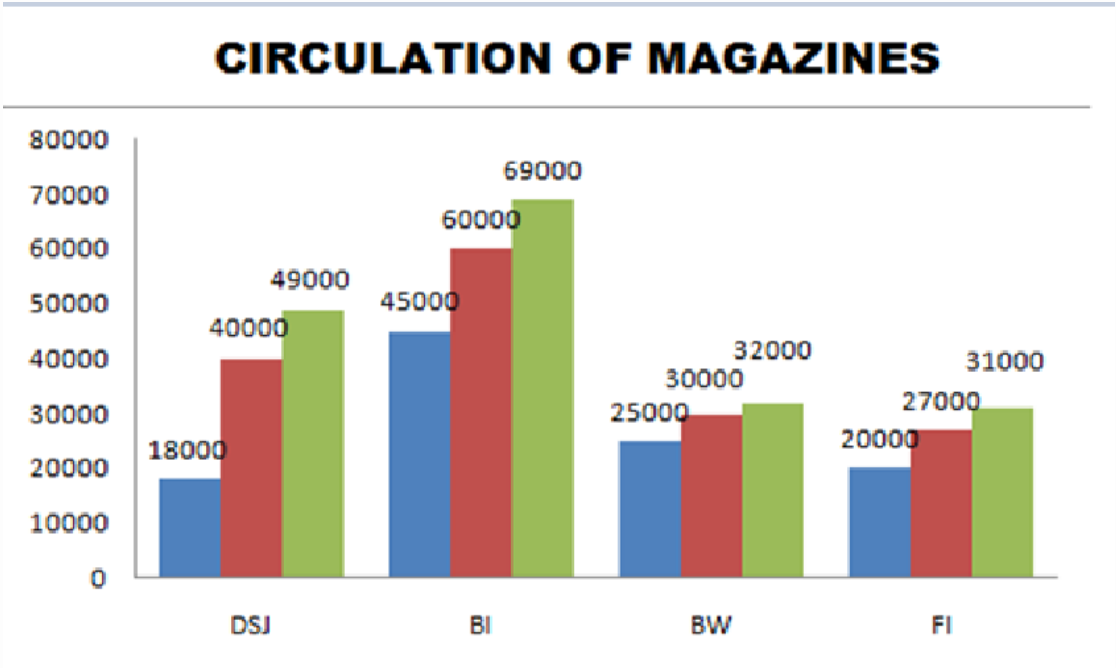
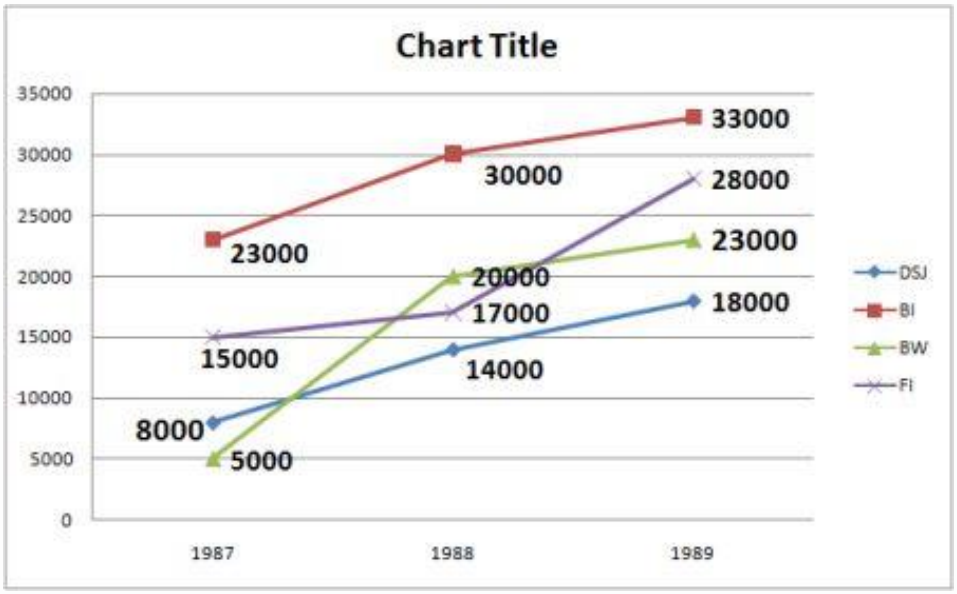
Quantitative Aptitude

Direction (1-5) Study the following graphs and answer the question based on them.



DSJ = Dalal Street; BI = Business India
BW = Business World FI = Fortune India



1) The total circulation of figures for the four magazines together in 1988 was approximately
a) 108000
b) 181000
c) 157000
d) 140000
e) None of these

2) During the years 1987-89, the magazine that has shown maximum percentage growth in circulation has been
a) Business India
b) Dalal Street Journal
c) Business World
d) Fortune India
e) None of these

3) In 1989, if Fortune India were to change the same rate to its advertiserson Dalal Street journal was charging a year ago, their cost of advertisement per thousand copies in Fortune India would
a) decrease by 50 %
b) increase by Rs. 140
c) Decrease by Rs. 400
d) Increase by 25 %
e) None of these

4) In 1988, the advertisement cost of colour page per thousand, copies was lowest for
a) Business India
b) Dalal Street Journal
c) Business World
d) Fortune India
e) None of these

5) The advertisement cost of page per thousand copies for business world has from 1987-88
a) remained the same
b) decreased by Rs 200
c) increased by Rs 466
d) Increased by Rs 200
e) None of these

Direction (6-10) Study the given table carefully to answer the following questions.

Field Name	Shape	Side (in m)	Base (in m)	Height (in m)	Radius (in m)	Cost of flooring (in Rs.	Cost of fencing (in Rs.

						per sq. metre)	per m)
A	Triangle		16	12		50	20
B	Rectangle	10 × 20				30	15
C	Square	15				40	18
D	Parallelogram		20	12		60	25
E	Circle				10	45	22

6) What is the cost of flooring of A?
a) Rs.4000 b) Rs.4600 c) Rs.4800
d) Rs.5000 e) Rs.4400

7) What is the difference between the cost of fencing of C and that of B?
a) Rs.180 b) Rs.120 c) Rs.240
d) Rs.360 e) Rs.480

8) What is the ratio of the cost of flooring to that of fencing of field D?
a) 4 : 1 b) 6 : 1 c) 8 : 1
d) 9 : 1 e) 5 : 1

9) The cost of fencing of field E is approximately what percent of the cost of flooring of field C?
a) 10.5% b) 19.46% c) 18.71%
d) 15.36% e) 13.82%

10) The cost of fencing of field C is what percent of the cost of fencing of field D?
a) 87.54% b) 67.5% c) 72.13%
d) 54.36% e) 46.5%

Direction (11-15) Study the following tables carefully and answer the questions given below them.
Number of candidates appeared in a competitive examination from five centres over the years.

Centre / year	Mumbai	Delhi	Kolkata	Hyderabad	Chennai
2001	35145	65139	45192	51124	37346
2002	17264	58248	52314	50248	48932
2003	24800	63309	56469	52368	51406
2004	28316	70316	71253	54169	52315
2005	36503	69294	69632	58360	55492
2006	29129	59216	64178	48230	57365
2007	32438	61345	56304	49178	58492

Approximate percentage of candidates qualified to appeared in the competitive examination from five centres over the years.

Mumbai	Delhi	Kolkata	Hyderabad	Chennai

12	24	18	17	9
10	28	12	21	12
15	21	23	25	10
11	27	19	24	8
13	23	16	23	13
14	20	21	19	11
16	19	24	20	14

11. Approximately, what was the difference between the number of candidates qualified from Hyderabad in 2001 and 2002?
a) 1861
b) 1560
c) 1450
d) 1200
e) None of these

12. Approximately, what was the total number of candidates qualified from Delhi in 2002 and 2006 together?
a. 12200
b. 14000
c. 28150
d. 14500
e. None of these

13. In which of the following years, was the difference of number of candidates appeared from Mumbai over the previous year the minimum?
a. 2008
b. 2007
c. 2004
d. 2012
e. None of these

14. In which of the following years, was the number of candidates qualified from Chennai, the maximum among the given years?
a. 2001
b. 2004
c. 2007
d. 2015
e. None of these

15. Approximately, how many candidates appearing from Kolkata in 2004 qualified in the competitive examination?
a. 13540
b. 12000
c. 11500

d. 10400
e. None of these

16. A man can row 12 km/hr in still water. When the river is running at 4 km/hr, it takes him 6 hrs to row to a place and come back. How far is the place?
a. 35 Km
b. 45 km
c. 32 km
d. 15 km
e. None of these

17. Find missing number in the series - 18, 96, 161, 213, 252, ?
a. 278
b. 150
c. 135
d. 199
e. None of these

18. X, Y and Z are situated at the bank of river which is flowing at a constant rate. Y is at an equal distance with X and Z. A swimmer Aviral takes 10 h to swim from X to Y and Y to X. Also, he takes 4 h to swim from X to Z. What is the ratio of speed of Aviral in still water and speed of stream?
a. 5/3
b. 8/9
c. 2/3
d. 2/4
e. None of these

19. Kishore lent out Rs.9500 at 8% per annum for a year 2 years 6 months. At the end of the duration, what amount he earned ?
a. 1800
b. 1900
c. 1600
d. 1400
e. None of these

20. The ratio between the present age of P and Q is 7:4.The ratio between the age of P and Q four years ago is 2:1.What is the ratio age of P and Q four years hence
a. 7:4
b. 8:5
c. 2:3
d. 1:2
e. None of these

21. A cricketer has completed 14 innings and his average is 20.5 runs. How many runs must he make in his next innings so as to raise his average to 22?
a. 20 runs
b. 25 runs
c. 42 runs
d. 52 runs
e. 58 runs

22. Find missing number in the series - 8,12,24,60,180,630 ?
a. 1250
b. 2520
c. 1780
d. 1650
e. None of these

23. P and Q are two alloys of gold and copper in the ratio 5:3 and 3:7.Equal quantities of these alloy mixed to form a new alloy.The ratio of gold and copper in the new alloy is
a. 37:38
b. 35:37
c. 37:43
d. 25:27
e. None of these

24. A , B and C invested Rs. 16000, Rs. 8000 and Rs. 16000 respectively to open a business. A left after 6 months. If after 8 months, there was a gain of Rs. 8010, then What will be the share of B?
a. Rs. 1780
b. Rs. 1540
c. Rs. 1630
d. Rs. 1250
e. None of these

25. Two cards are drawn from a pack of 52 cards. The probability that either both are red or both are kings, is:

a) 7/13 b) 3/26 c) 63/221
d) 55/221 e) None of these

26. The probability that a card drawn from a pack of 52 cards will be a diamond or a king is :

a) 2/13 b) 4/13 c) 1/13
d) 1/52 e) None of these

27. The cost of fencing a circular plot at the rate of Rs15 per m is Rs 6600. What will be the cost of flooring the plot at the rate of Rs 50 per sq m?
a. 7,70,000

b. 5,50,000
c. 4,40,000
d. 2,00,000
e. None of these

28. Average weight of 20 men is 72 kgs, and the average weight of 34 women is 62.5 kgs. What is the average weight (rounded off to the nearest integer) of all the men and the women together?
a. 65 kg
b. 48 kg
c. 66 kg
d. 78 kg
e. None of these

29. Steve is older than Mark by 4 years. If the ratio of their current ages is 7:9, what will be the corresponding new ratio of their ages when Mark is twice as old as he is now?
a. 8:9
b. 7:8
c. 3:4
d. 2:5
e. None of these

30. A, B and C can do a work in 20, 30 and 60 days respectively. How many days does it need to complete the work if A does the work and he is assisted by B and C on every third day?
a. 20 days
b. 35 days
c. 15 days
d. 8 days
e. None of these

31. A train has a length of 150 meters . it is passing a man who is moving at 2 km/hr in the same direction of the train, in 3 seconds. Find out the speed of the train.
a. 175 kmph
b. 140 kmph
c. 125 kmph
d. 182 kmph
e. None of these

32. Ravi complete a journey in 10 hours. He travels first half of the journey at the rate of 21 km/hr and second half at the rate of 24 km/hr. Find the total journey in km.
a. 244 km
b. 122 km
c. 240 km
d. 145 km
e. None of these

33. There are two buildings X and Y. If 15 persons are sent from X to Y, then the number of persons in each building is the same. If 20 persons are sent from Y to X, then the number of persons in X is double the number of persons in Y. How many persons are there in building X ?
a. 430
b. 225
c. 120
d. 85

e. None of these

34. A sum of money at simple interest amounts to Rs. 850 in 3 years and to Rs. 900 in 4 years. The sum is ?

a. 765

b. 723

c. 700

d. 785

e. None of these

35. A vendor bought bananas at 6 for a rupee. How many for a rupee must he sell to gain 20%?

a. 4

b. 8

c. 3

d. 5

e. None of these

Reasoning

Direction (36-40) Study the following information and answer the question given below.

Eight people E, F, G, H, J , K, L and M are sitting around a circular table facing the centre. Each of them is of a different profession Chartered Accountant, Colomnist, Doctor, Engineer, Financial Analyst, Lawyer, Professor and Scientist but not necessarily in the same order. F is sitting second to the left of K. The Scientist is an immediate neighbour of K. There are only three people between the Scientist and E. Only one person sits between the Engineer and E. The Coloumnist is to the immediate right of the Engineer. M is second to the right

of K. H is the Scientist. G and J are immediate neighbours of each other. Neither G nor J is an Engineer. The Financial Analyst is to the immediate left of F. The Lawyer is second to the right of the Coloumnist. The Professor is an immediate neighbour of the Engineer. G is second to the right of the Chartered Accountant.

36. Who is sitting second to the right of E?

a) The Lawyer b) G c) The Engineer

d) F e) K

37. Who amongst the following is the Professor?

a) F b) L c) M

d) K e) None of these

38. Four of the following five are alike in a certain way based on the given arrangement and hence from a group. Which of the following does not belong to that group?

a) Chartered Accountant b) M – Doctor c) J – Engineer

d) Financial Analyst – L e) Lawyer – K

39. What is the position of L with respect to the Scientist?

a) Third to the left b) Second to the right c) Second to the left

d) Third to the right e) Immediate right

40. Which of the following statements is true according to the given arrangement?

a) The Lawyer is second to the left of the Doctor

b) E is an immediate neighbour of the Financial Analyst

c) H sits exactly between F and the Financial Analyst

d) Only four people sit between the Coloumnist and F

e) All of the given statements are true

Direction (41-45) Study the following information carefully and answer the questions given below :

10 people are sitting in two parallel rows containing five people each, in such a way that there is an equal distance between adjacent people. In row-1, Q, R, S, T and U are seated and all of them are facing north. In Row-2, L, M, N, O and P are seated and all of them are facing south. Therefore in the given sitting arrangement each member seated in a row faces another member of the other row. S is sitting 2nd to the left of Q. Q is not sitting at any of the ends of the line. There are two persons between P and L. The person who faces T is to the immediately left of M. M is sitting at the extreme right end. Q is an immediate neighbour of U. The person who faces U is an immediate neighbour of both P and N.

41. Who among the following is sitting 2nd to the right of O?

a) P b) M c) L

d) Cannot be determined e) None of these

42. Who among the following sits exactly between Q and S?

a) T b) U c) R

d) There is no person between Q and S

e) Cannot be determined

43. Who among the following is sitting at the extreme right end of the Row-1?

a) Q b) U c) S

d) R e) Cannot be determined

44. Which of the following statements is true regarding R?

a) R is at the extreme left end of the row

b) R is an immediate neighbor of U

c) R is sitting second to the right of T

d) R is sitting exactly between T and U

e) There two persons between R and S

45. Who among the following is not seated at any extreme end of Row-1 and Row-2?

a) P b) S c) M

d) R e) O

Direction (46-50) In each of the following questions, two equations are given. You have to solve them and give answer.

1) If x ≥ y
2) If x > y
3) If x < y
4) If x ≤ y
5) If x = y

46. ¾ X 7/6 x= 12/15 X 25/24y

47.
I. x + y = 16
II. $x^2 + y^2 + xy = 192$

48.
I. $4x^2 + 8x = 4x + 8$
II. $y^2 + 9y = 2y - 12$

49.
I. $2x^2$ 40 = 18x
II. $y^2 = 13y - 42$

50.
I. $6x^2 + 1/2 = 7x/2$
II. $12y^2 + 2 = 10y$

Direction (51-55) A word and number arrangement machine when given an input line of words and numbers rearranges
them following a particular rule in each step. The following is an illustration of input and rearrangement.
Input: *go now 53 39 18 for again 66*
Step 1 : 66 go now 53 39 18 for again
Step 2 : 66 again go now 53 39 18 for
Step 3 : 66 again 53 go now 39 18 for
Step 4 : 66 again 53 for go now 39 18
Step 5 : 66 again 53 for 39 go now 18
Step 6 : 66 again 53 for 39 go now 18
Step 7 : 66 again 53 for 39 go 18 now
As per the rule followed in the following questions the appropriate step for the given input.

51. Input: *chanoyu wink 24 44 57 Heinz beech 71.*
How many steps will be required to complete the rearrangement?
a. Three
b. Four
c. Five
d. Six
e. None of these

52. Input: *trees 18 27 desk are 91 hour zero 31 16 chairs.*
Which of the following will be step 4 ?
a. 91 are 31 trees 18 27 desk hour zero 16 chairs
b. 91 trees 18 27 desk are hour zero 31 16 chairs
c. 91 are 31 chairs trees 18 27 desk hour zero 16
d. 91 are 31 chairs 27 desk 18 trees hour zero 16
e. None of these

53 Input: *how two 38 23 87 43 room over*
Which of the following steps will be the last?

a. Step 4
b. Step 5
c. Step 6
d. Step 7
e. None of these

54. Step 2 of an input is: *94 car 86 window shut 52 31 house*
Which of the following is definitely the input?

a. 94 car window 86 shut 52 31 house
b. 86 window 94 car shut 52 31 house
c. car shut window 86 52 31 house 94
d. cannot be determined
e. None of these

55. Input: *show 51 37 now for 82 49 goot*

Which of the following steps will be the last but one?

a. Step 7 b. Step 8

c. Step 6 d. Step 5

e. None of these

Direction (56-60) Read the following information carefully and answer the questions which follow.

Five friends Abdullah, Birbal, Chanakya, Durjan, and Eeshwar are working in 5 different departments M, N, O, P and Q and they earn different salaries i.e. 10,000, 15,000, 20,000, 25,000 and 30,000 and they all are of different ages i.e. 24, 26, 28, 30 and 32 years. These all information are not necessarily in the same order.

Birbal works in department M and earns more than 20,000. Person who is 28 years old works in department Q. 32 years old person earns at least 20,000.

The person who is 26 years old earns 25,000. Abdullah earns 15,000, but does not work in department N or P. Person who is 30 years old earns highest salary but does not work in department M and N. Eeshwar does not work in department P or Q, and his age is not 32. The salary of Durjan is less than 20,000.

56. Who works in department N?

a) Birbal b) Chanakya c) Durjan
d) Eeshwar e) Can't be determined

57. If the name of the person represents its salary then which of the following is true?

a) Abdullah + Birbal = Chanakya
b) Chanakya + Durjan = Eeshwar
c) Durjan + Eeshwar = Birbal
d) Abdullah + Durjan = Eeshwar
e) None of these

58. Which of the following combination is definitely true?
a) Birbal-30 years-M-30,000
b) Durjan-24 years-N-10,000
c) Abdullah-24 years-P-15,000
d) Eeshwar-30 years-O-30,000
e) None of these

59. The person whose age is 30 works in which department?
a) M b) N c) O
d) P e) None of these

60. Age and Salary of Chankaya is:

a) 32 years and Rs. 20,000
b) 24 years and Rs. 25,000
c) 30 years and Rs. 30,000
d) 35 years and Rs. 32,000
e) None of The Above

Direction (61-65) In each of the questions below consists of a question and two statements numbered I and II given below it.
You have to decide whether the data provided in the statements are sufficient to answer the question. Read both the statements and
Give answer

(A) If the data in statement I alone are sufficient to answer the question, while the data in statement II alone are not sufficient to answer the question

(B) If the data in statement II alone are sufficient to answer the question, while the data in statement I alone are not sufficient to answer the question

(C) If the data either in statement I alone or in statement II alone are sufficient to answer the question

(D) If the data given in both statements I and II together are not sufficient to answer the question and

(E) If the data in both statements I and II together are necessary to answer the question.

61. In which year was Rahul born ?
Statements:

Rahul at present is 25 years younger to his mother.

Rahul's brother, who was born in 1964, is 35 years younger to his mother.

a. I alone is sufficient while II alone is not sufficient

b. II alone is sufficient while I alone is not sufficient

c. Either I or II is sufficient

d. Neither I nor II is sufficient

e. Both I and II are sufficient

62. What will be the total weight of 10 poles, each of the same weight ?
Statements:

One-fourth of the weight of each pole is 5 kg.

The total weight of three poles is 20 kilograms more than the total weight of two poles.

a. I alone is sufficient while II alone is not sufficient

b. II alone is sufficient while I alone is not sufficient

c. Either I or II is sufficient

d. Neither I nor II is sufficient

e. Both I and II are sufficient

63. How many children does M have ?
Statements:

H is the only daughter of X who is wife of M.

K and J are brothers of M.

a. I alone is sufficient while II alone is not sufficient

b. II alone is sufficient while I alone is not sufficient

c. Either I or II is sufficient

d. Neither I nor II is sufficient

e. Both I and II are sufficient

64. How much was the total sale of the company ?
Statements:

The company sold 8000 units of product A each costing Rs. 25.

This company has no other product line.

A. I alone is sufficient while II alone is not sufficient

B. II alone is sufficient while I alone is not sufficient

C. Either I or II is sufficient

D. Neither I nor II is sufficient

E. Both I and II are sufficient

65. The last Sunday of March, 2006 fell on which date ?
Statements:

The first Sunday of that month fell on 5th.

The last day of that month was Friday.

a. I alone is sufficient while II alone is not sufficient

b. II alone is sufficient while I alone is not sufficient

c. Either I or II is sufficient

d. Neither I nor II is sufficient

e. Both I and II are sufficient

66. Pointing to a photograph of Hari, Vijay said, “The father of his sister is the husband of my wife’s mother’. How is Vijay related to Hari?

a) Brother
b) Brother-in-law
c) Uncle
d) Data inadequate
e) None of these

67. Shikha started from a point in west direction. She walked for 3 m and turned to her right. Next she walked 5 m and turned to her right again. Finally she walked another 5 m and stopped. How far is she now from the starting point?

a) √19 m
b) √29 m
c) √25 m
d) √17 m
e) None of these

68. Bhavna started from a point in east direction. She walked 10m and then took a right turn. She again walked 10 m before tuning to her left. Now she walked 30 m. Now after turning to left again she walked 40 m and stopped. How far is she now from the starting point?

a) 45√2 m
b) 50√2 m
c) 52 m
d) 50 m
e) 68 m

69. The age of Rekha is twelve times that of her daughter Avani. If the age of Avani is 3 years, what is the age of Rekha?

a. 32 years
b. 36 years
c. 28 years

d. 45 years
e. None of these

70. At present, the ratio between the ages of Amar and Norman is 4:3. After 6 years, Amar's age will be 26 years. What is the age of Norman at present?
a. 12 years
b. 18 years
c. 7 years
d. 15 years
e. None of these

English

Direction (71-75) Read the following passage carefully and answer the questions given below it.

A long time ago, on a big tree in the lap of the mountain, lived a bird named Sindhuka. It was a rather special bird because its droppings turned into gold as soon as they hit the ground. One day, a hunter came to the tree in search of prey and he saw Sindhuka's droppings hit the ground and turn into gold. The hunter was struck with wonder. He though, "I have been hunting birds and small animals since I was a boy, but in all my 80 years, I have never seen such a miraculous creature. He decided that he had to catch the bird somehow. He climbed the tree and skillfully set a trap for the bird. The bird, quite unaware of the danger it was in, stayed on the tree and sang merrily. But it was soon caught in the hunter's trap. The hunter immediately seized it and shoved it into a cage. The hunter took the bird home joyfully. But as he had time to think over his good fortune later, he suddenly realised, "If the king comes to know of this wonder, he will certainly take away the bird from me and he might even punish me for keeping such a rare treasure all to myself. So it would be safer and more honourable if I were to go to the king and present the unique bird to him," The next day, the hunter took the bird to the king and presented it to him in court with great reverence. The king was delighted t o receive such an unusual and rare gift. He told his courtiers to keep the bird safe and feed it with the best bird food available. The king's prime minister though, was reluctant to accept the bird. He said "O Rajah, how can you believe the word of a foolish hunter accept this bird? Has anyone in our kingdom ever seen abird dropping gold? The hunter must be either crazy or telling lies. I think it is best that you release the bird from the cage." After a little thought, the king felt that his prime minister's words were correct. So he ordered the bird to be released. But as soon as the door of the cage was thrown open, the bird flew out, perched itself on a nearby doorway and defecated. To everyone's surprise, the dropping immediately turned into gold. The king mourned his loss.

71. Which of the following is possible the most appropriate title for the story?
a) The Skilled Hunter
b) The King's Prime Minister
c) The King's Defeat
d) The Bird with the Gold Dropping
e) The Trials and Tribulations of the Foolish Bird Sindhuka

72. Which of the following emotions made the hunter gift the bird to the king?

a) Respect b) Joy c) Pride

d) Fear e) Awe

73. Which of the following is true according to the story?
a) Birds like Sindhuka were very common in the area near the mountain
b) Sindhuka remained caged for the rest of its life
c) Sindhuka was unaware of the trap laid by the hunter
d) The King, when told to not accept the bird, did not listen to his Prime Minister
e) All are true

74. Why was the king's Prime Minister reluctant to accept the bird?

a) He believed that the bird would die if caged

b) He know about the hunter's habit of lying

c) He believed that the bird would bring bad luck to the king

d) His sources had informed him that the hunter was crazy

e) None of these

75. How did the hunter find Sindhuka?
a) He had read stories about the bird and had set traps at various locations in the city
b) He followed the bird's droppings
c) He was on the lookout for a prey when he chanced upon it
d) People from the city had informed him about the bird's whereabouts
e) He was attracted by the birds calls

Direction (76-81) Read the following passage carefully and answer the questions given below it.

The King of Kanchi set off to conquer Kamat. He was victorious in battle. The elephants were laden with sandalwood, ivory gold and precious stones, taken from the conquered kingdom of Kamat. They would be a part of the victory parade for his sujbjects. On his way back home he stopped at a temple, finished his prayers to the goddess and turned to leave. Around his neck, was a garland of scarlet hibiscus and as was the custom for all, his forehead was anointed with red sandal paste. His Minister and the court jester were his only companions. At one spot, in a mango grove by the wayside, they spied some children play. The King said, "Let me go and see what they are playing." The children had lined up two ros of clay dolls and were playing warriors and battles. The king asked, "Who is fighting with whom?" They said, "Kamat is at battle with Kanchi." The king asked, "who is winning and who is the loser?" The children puffed their chests up and said, "Kamat will win and Kanchi will lose." The Minister froze in disbelief, the King was furious and the juester burst into

laughter. The King was soon joined by his troops and the children were still immersed in their game. The King commanded, “Cane them hard.” The children’s parents came running from the nearby village and said, “They are naïve, it was just a game, please grant them pardon.” The King called his commander and ordred, “Teach these children and the village a slesson so that they never forget the king of Kanchi.” He went back to his camp. That evening the commander stood before the King. He bowed low in shame and said, “Your Majesty, with the exception of hyenas and vultures, all lie silent in the village.” The Minister said, “His Majesty’s honour has been saved.” The priest said, “The goddess has blessed our King.” The jester said, “Your highness, please grant me leave to go now.” The King asked, “But why?” The jester said, “I cannot kill, I cannot maim, I can only laugh at God’s gift of life.” Trembling In the face of the King’s anger he bravely continued, “If I stay in your Majesty’s court, I shall become like you and I shall forget how to laugh.”

76. Why were the elephants carrying loads of gold and other valuables?

a) This was what the king had looted from Karnat to distribute among his soldiers as a reward

b) This was the king’s offering to the deity out of gratitude for making him victorious

c) It was what the king had plundered from Karnat to display to the people of his kingdom as a sign of victory

d) So that the people of the kingdom of Karnat acknowledged him as their rew ruler

e) None of these

77. Why did the king anoint his head with red sandal paste?

a) As a mark of celebration to show he had been victorious

b) It was the usual practice for all devotees at the temple

c) To show other devotees that he was king

d) To priest requested him to do so

e) To show his soldiers that he had visited the temple

78. What excuse was given for the children’s behaviour?

a) They were disobedient to their parent’s wishes

b) They were unaware of the true facts of the battle

c) They were upset that their army had lost

d) They were in the habit of lying

e) None of these

79. Which of the following is true in the context of the passage?

a) The king stopped at the temple to see what else could be plundered

b) The people of the village to which the children belonged developed great respect for the king

c) The commander was ashamed at having obeyed the king's orders to cane the children

d) The jester was unhappy that the king had defeated the army of karnat

e) None of these

80. Why did the jester resign from his post?

a) He felt that the king was too influenced by the Minister

b) To show that he disapproved of the king's action of punishing the children

c) He did not want to accompany the king on his war campaign

d) He was no longer able to make the king laugh

e) None of these

81. Why was the king angry with the children?

a) Because the game they were playing was dangerous

b) They had lied him

c) They did not recognize him as king

d) They had unknowingly insulted him

e) They were rude to him

Direction (82-83) In the following section each item consists of a word or a phrase which is bold in the sentence given. It is followed by four words or phrases. Select the word or phrase which is synonymous in meaning to the word in bold.

82. Nurturing

A. Enforce
B. Revolt
C. Track
D. Permanent
E. None of these

83. Jaunt

a. irresistible force
b. short drive
c. solitary
d. refuse
e. None of these

Direction (84-86) In the following questions choose the word which is the exact OPPOSITE of the given words.

84.

ENORMOUS

a Soft

b Average

c Tiny

d Weak

e. None of these

85. COMMISSIONED

a Started

b Closed

c. Finished

d. Terminated

e . None of these

86.

ARTIFICIAL

a Red

b Natural

c. Truthful

d. Solid

e.None of these

Directions (Q.87-91): 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/phrases are suggested, one of which fits the blank appropriately.
In spite of globalization and the possibility cheaper (_1_), large (_2_) like the United State and China have (_3_) that they cannot (_4_) to depend on imports for vital industrial products. So, they must build up the domestic manufacturing capabilities and capacities to (_5_) necessary skills and

Ques - Find out the appropriate word in each case.

87. a) products
b) exports
c) imports
d) goods
e) trade

88. a) countries
b) economies
c) producers
d) traders
e) industrialists

89. a) realised
b) brandished
c) evolved
d) ascertained
e) developed

90. a) question
b) emerge
c) emphasise
d) behold
e) afford

91. a) build
b) officiate

c) diagnose
d) create
e) supply

Direction (92-96) Read each part of the sentence to find out if there is any error in it.
The error, if any, will be in one part of the sentence. The number of that part is the answer. If there is no error, mark your answer as (5).

Spot grammatical errors

92. We received constantly calls (1)/ from the citizens complaining (2)/that they are not receiving water (3)/ even once in two days (4)/ No error (5)

93. The road shows will be used as platform (1)/ to create awareness among general public (2)/ and tour operations of other cities (3)/regarding the tourist potential of Odisha (4)/ No error (5)

94. To employ sportspersons (1)/ who have excel in international events (2)/ the state government has decided to (3)/ come up with comprehensive sports policy (4)/ No error (5)

95. Animal rights activists have threatened (1)/ to go on a fast if action is not taken against the foreign staffer (2)/ who killed Australian lizard (3)/ that had entered a resident home (4)/ No error (5)

96. In a smart city, all the departments which contribute (1)/ of the functioning of a city are interlinked (2)/ by means of computers and internet (3)/ bridging the gap between the comprehensive institutional mechanisms for easier functioning (4)/ No error (5)

Direction (97-100) Rearrange the following six sentences (A), (B), (C), (D), (E) and (F) in the proper sequence to form a meaningful paragraph; then answer the questions given below.

97. A) Moreover, salaries in public sector enterprises are not as competitive as those offered by private or foreign corporate.
B) This trend should be a wake-up call for stakeholders to examine why employee are seeking better opportunities with private companies in India and abroad.
C) Public Sector Enterprises (PSEs) have been experiencing severe challenges in attracting, motivating and retaining their key staff.
D) Having identified these as the reasons why employees leave PSEs, it is important to empower stakeholders to find ways to remedy the situation.
E) One reason is that young employees lured away by private firms are more willing to undertake professional risks.
F) Employees in specialist roles especially have become increasingly difficult to retain.

The Proper sequence should be:

1- CFEBAD

2- CFBDAE

3- CFBEAD

4- CFBEDA

5. None of these

98. A) Assuming that all these reasons are true, the fact remains that there is an urgent need to check the accelerated costs and initiate suitable measures.
B) Some people attribute it to the increasing greediness among the medicos.
C) The Impact of these measures will be visible only after a considerable passage of time.
D) Healthcare costs have been Skyrocketing in our country.
E) The measures include yoga classes with emphasis on physical and mental exercises and also change in food habits.
F) Certain others feel that it is because of drastic changes in people's lifestyle and eating habits.

The Proper sequence should be:

1- DBFAEC

2- DBAFEC

3- DBFEAC

4- DBFACE

5. None of these

99. A) Settlement in real time means the transaction is not subjected to any waiting period.
B) It is a funds transfer mechanism.
C) Moreover, as the money transfer takes place in the books of RBI it is final and irrevocable.
D) The acronym RTGS stands for Real Time Gross Settlement.
E) While gross Settlement means the transaction is settled without bunching it with any other transaction.
F) The transfer of funds takes place on a real time and gross basis.

The Proper sequence should be:
1- DBAFEC

2- DBFAEC

3- DBEAFC

4- DBFEAC

5. None of these

100. A) As a result the non-stop tensions and anxieties at work often result in health-related problems.
B) The truth is we cannot change the world of work.
C) We spend at least half our waking hours at work.
D) We have therefore to take charge and transform the way in which we respond to our work environment.
E) So how can we control these problems and perform at work?
F) However, we can change the way we feel and deal with various situations.

The Proper sequence should be:
1- CEABFD

2- CABEFD

3- CAEBFD

4- CAEBDF

5. None of these

Answer:

1) option c – 157000
Total circulation in 1988 = 40000 + 60000 + 30000 + 27000 = 157000

2) option b – Dalal Street Journal Percentage growth for the business India during 1987-89 = (69 – 45) / 45 x 100% = 53.3%
Percentage growth for the Dalal Street Journal during 1987-89 = (49 – 18) / 18 x 100% = 172%
Percentage growth for the Business World during 1987-89 = (32 – 25) / 25 x 100% = 28%
Percentage growth for the Fortune during 1987-89 = (31 – 20) / 20 x 100% = 55%
MAXIMUM is for Dalal Street Journal

3) Option a – decreases by 50%
In 1989, advertisement tariff for FI in 1989 = Rs 28000
According to condition, advertisement tariff for 1989 = Rs 14000
So, cost of advertisement will be decreased and percentage decrease per thousand copies

= [(28000 – 31000)/1000] – [(14000/31000) – 1000] / [(28000 – 31000)/1000] = 50%

4) Option b – Dalal Street Journal
Advertisement cost per 100 copies is given below
Dalal Street Journal = (14000/40000)x1000 = Rs 350
Business World= (20000/30000)x1000 = Rs 666
Fortune India= (17000/27000)x1000 =Rs 629
Business India= (30000/60000)x1000 =Rs 500
LOWEST is for Dalal Street Journal.

5) Option c – increased by Rs 466
Advertising Cost per 1000 copies of Business World in 1987
= (5000/25000)/1000 = Rs 200
Advertising Cost per 1000 copies of Business World in 1988
= (20000/30000)/1000 = Rs 666
Hence, cost increased by Rs 466

6. Option C
A is a triangle
So, area of A = 1/2 × 16 × 12 = 96 sqm
So, cost of flooring of A = 96 × 50 = Rs.4800

7. Option A
Perimeter of B = 2 (10 + 20) = 60 m
So, cost of fencing of B = 60 × 15 = 900
Perimeter of C = 4 × 15 = 60 m
So, cost of fencing of C = 60 × 18 = Rs.1080
So, required difference = 1080 – 900 = Rs.180

8. Option D
Area of D = Base × Height
= 20 × 12 = 240 mtr sq
So, cost of flooring of D= 240 × 60 = Rs.14400
Perimeter of D = 2 (20 + 12) = 64 m
So, cost of fencing of D = 64 × 25 = Rs.1600
So, required ratio = 14400 : 1600 = 9 : 1

9. Option D
Perimeter of E = 2πr = 2 × 22/7 × 10 = 440/7 m
Cost of fencing of E = 440/7 × 22 = Rs.1382.85
Area of C = 15 x 15= 225 mtr square
So, cost of flooring of C = 225 × 40 = Rs.9000
So, required % = 1382.85 x 100 / 9000
= 15.36% of flooring cost of C.

10. Option B
Fencing cost of C = Rs.1080
Fencing cost of D = Rs.1600
Required % = 1080/1600 × 100 = 67.5%

11. Solution :
Number of candidates qualified from Hyderabad in 2001
= 51124 x 0.17 = 8691
Number of candidates qualified from Hyderabad in 2002
= 50248 x 0.21 = 10552
So, required difference = 10552 – 8691 = 1861

12.

Solution: Number of candidates qualified from Delhi in 2002

$= 58248 \times 0.28 = 16309$

Number of candidates qualified from Delhi in 2006

$= 59216 \times 0.20 \approx 11843$

So, required number = 16309 + 11843 = 28152 ≈ 28150

13. Solution: Candidate appeared from Mumbai

Difference in 2002 = 35145 – 17264 = 17881
Difference in 2003 = 24800– 17264= 7536
Difference in 2004 = 28316 – 24800 = 3516
Difference in 2005 = 36503 – 28316 = 8187
Difference in 2006 = 36503 – 29129 = 7374
Difference in 2007 = 32438 – 29129 = 3309
So, least difference was in 2007.

14.

Solution: Number of candidates qualified from Chennai

In 2003 = 51406 × 0.10 ≈ 5141

In 2005 = 55492 × 0.13 ≈ 7214

In 2006 = 57365 × 0.11 ≈ 6310

In 2007 = 58492 × 0.14 ≈ 8189

So, maximum number was in 2007

15.

Solution: Number of candidates qualified from Kolkata in 2004

= 71253 × 0.19 = 13539 ≈ 13540

16. Solution:

Time = Distance / Speed
D/(12+4) + D/(12-4) = 6
D/16 + D/8 = 6
D = 32 Km

17. Solution:

18+(13x6) = 96
96+(13x5) = 161
161+(13x4)= 213
213+(13x3)= 252
252+(13x2)= 278

18. Solution :

Speed with stream " u " =a+b
Speed against stream "v"=a-b
Distance between X to Z = 2D
==>2D/u = 4 hours
==> D=2u
D/u + D/v = 10 hours
==>2u/u + 2u/v = 10
==>u/v=4
put u nd v value.
==>a+b/a-b = 4
==>a/b = 5/3

19. Solution:

Rate x Time = 8x5/2 = 20%
100% ---- 9500
20% ---- ?
Simple Interest = 1900

20. Solution:
Present age = 7:4 (difference 7-4=3)
4 years ago ratio = 2:1 (difference 2-1=1)
New Ratios:
Present age = 7:4 x1 = 7:4
4 years ago ratio = 2:1 x3 = 6:3
Difference between any person ratio = 1 units
Age difference = 4 years
P and Q ages are 28 and 16
After 4 years Ratios = 32:20 = 8:5

21. Solution:

Total runs in 24 innings = 492
Total runs in 25 innings = 22x25 =550
25^{th} innings score = 550-492 = 58 runs

22. Solution :

12= 8*1.5
24= 12*2
60= 24*2.5
180= 60*3
630= 180*3.5
630*4 = 2520

23. Solution:

New ratio of P and Q = (5/8 + 3/10) / (3/8+ 7/10)
P : Q = (25+12) : (15+28) = 37:43

24. Solution:

A : B : C = (16000 x 6) : (8000 x 8) : (16000 x 8)
è48 : 32 : 64 = 3 : 2 : 4
B's share = Rs.8010 x 2/9 = Rs. 1780

25. (Option D)

Clearly, n(S) = $^{52}C_2$ = (52 × 51) / 2 = 1326
Let E_1 = event of getting both red cards,
E_2 = event of getting both kings
Then, $E_1 \cap E_2$ = event of getting 2 kings of red cards.
n (E_1) = $^{26}C_2$ = (26 ×25) / (2 × 1) = 325 ; n (E_2) = $^4C_2$ = (4 ×3) / (2 × 1) = 6
n ($E_1 \cap E_2$) = $^2C_2$ = 1
P (E_1 = nE_1 / n (S) = 325 / 1326 P (E_2) = nE2 / n (S) = 6 / 1326
P ($E_1 \cap E_2$) = 1 / 1326
P (both red or both kings) = P ($E_1 \cup E_2$)

= P (E_1) + P (E_2) = P ($E_1 \cap E_2$)

= 325 / 1326 + 6 / 1326 - 1 / 1326
= 330 / 1326
= 55 / 221

26. (Option B)

Here, n(S) = 52
There are 13 cards of diamond (including one king) and there are 3 more kings.
Let E = event of getting a diamond or a king.
Then, n(E) = (13 + 3) = 16
P (E) = 16 / 52 = 4 / 13

27. Solution :

==> 2xpi x r = 6600/15 =440m
==> r = 70m

Area = pi x r^2= 22/7 x70x70 = 15,400

Total cost = 15,400x50=7,70,000

28. Solution :

Total Weight of men = 20x72= 1440

Total Weight of women = 34x62.5 = 2125

Average weight of all men and women = (1440+2125)/(20+34) = 66.01~ = 66 kgs

29. Solution :
Ratio difference = 9-7=2 units
Age difference = 4
2 units ---------- 4
7 units --------- ?
Mark age = 14 years
Similarly Steve age = 18 years
Mark is twice as old as he is age = 14 +14 =28
At the same time Steve age = 18+14 = 32
New ratio = 7:8

30. Solution :
L.C.M of 20,30 and 60 = 60 = Total work
A efficiency = 60/20 =3
B efficiency = 60/30 = 2
C efficiency = 60/60 = 1
A working 2 days and third day they all working together
So total efficiency = A efficiency + A efficiency + A , B and C efficiency (for 3days)
==> 3+3+6=12
Work completed = 60/12 = 5
Total days = 5x3 = 15 days

31. Solution :
Speed x 10 --------- 36 sec (its gives how many meters travelled in 36 sec)
Train speed = x kmph
Man speed = 2 kmph
Relative Speed = x-2
(X-2)x10 ---------- 36 sec
150. ---------- 3 sec
==> 30(x-2) = 5400
==> x = 182kmph

32. Total distance = x km
==> (x/2)/21 + (x/2)/24 = 10
==> X = 224 km

33. Solution :
Case i :
If 15 persons are sent from X to Y, then the number of persons in each building is the same.
==> X-15 = Y +15
==> Y = X -30 ---- (i)
Case ii :
If 20 persons are sent from Y to X, then the number of persons in X is double the number of persons in Y.
==> X+20 = 2x(Y-20) ---- ii
Sub eq (i) in eq ii

==> X = 120

34. Simple Interest (SI) for 1 year = 900-850=50
Simple Interest (SI) for 3 years = 50 × 3 = 150
Principal = 850 - 150= 700

35. Solution :
1/6 --------- 100%
1/x --------- 120%
X = 5

Reasoning

36. B 37. D 38. C 39. B 40. A 41. C
42. Option A T sits exactly between Q and S.
43 . Option D R is sitting at the extreme right end of the Row-1.

44. Option B
R is at the extreme right end.
R is to the immediate right of U.
R is sitting third to the right of T.
R is at one of the ends.
There are three persons – T, Q and U – between R and S

45. Option E O is second from the left in Row-2.

46. c 47. e 48. b 49. c 50. d

51. Option 'D'
Write the first letters of the given problem.
Step 1 : 71 C W 24 44 57 H B
Step 2 : 71 B C W 24 44 57 H
Step 3 : 71 B 57 C W 24 44 H
Step 4 : 71 B 57 C 44 W 24 H
Step 5 : 71 B 57 C 44 H 24 W
Step 6 : 71 B 57 C 44 H 24 W

52. Option 'C'
Step 1 : 91 trees 18 27 desk are hour zero 31 16 chairs
Step 2 : 91 are trees 18 27 desk hour zero 31 16 chairs
Step 3 : 91 are 31 trees 18 27 desk hour zero 16 chairs
Step 4 : 91 are 31 chairs trees 18 27 desk hour zero 16
Step 5 : 91 are 31 chairs 27 trees 18 desk hour zero 16
Step 6 : 91 are 31 chairs 27 desk trees 18 hour zero 16

Step 7 : 91 are 31 chairs 27 desk 18 trees hour zero 16
Step 8 : 91 are 31 chairs 27 desk 18 hour trees zero 16
Step 9 : 91 are 31 chairs 27 desk 18 hour 16 trees zero
Step 10 : 91 are 31 chairs 27 desk 18 hour 16 trees zero

53. Option 'C'

Step 1 : 87 how two 38 23 43 room over
Step 2 : 87 how 43 two 38 23 room over
Step 3 : 87 how 43 over two 38 23 room
Step 4 : 87 how 43 over 38 two 23 room
Step 5 : 87 how 43 over 38 room two 23
Step 6 : 87 how 43 over 38 room 23 two

54. Option 'D'
From the given step input cannot be determined

55.
Option 'C'
Step 1 : 82 show 51 37 now for 49 goot
Step 2 : 82 for show 51 37 now 49 goot
Step 3 : 82 for 51 show 37 now 49 goot
Step 4 : 82 for 51 goot show 37 now 49
Step 5 : 82 for 51 goot 49 show 37 now
Step 6 : 82 for 51 goot 49 now show 37
Step 7 : 82 for 51 goot 49 now 37 show

Direction (56-60)

Persons	Ages	Departments	Salaries
Abdullah	28	Q	15,000
Birbal	26	M	25,000
Chankaya	32	Can Not Determine	20,000
Durjan	24	Can Not Determine	10,000
Eeshwar	30	O	30,000

56. E 57. B 58.D 59.C 60.A

61. Option E
Explanation:

From both I and II, we find that Rahul is (35 - 25) = 10 years older than his brother, who was born in 1964. So, Rahul was born in 1954.

62. Option C
Explanation:

From I, we conclude that weight of each pole = (4x5) kg = 20 kg.

So, total weight of 10 poles = (20 x 10) kg = 200 kg.

From II, we conclude that:

Weight of each pole = (weight of 3 poles) - (weight of 2 poles) = 20 kg.

So, total weight of 10 pojes = (20 x 10) kg = 200 kg.

63. Option D
Explanation:

From I, we conclude that H is the only daughter of M. But this does not indicate that M has no son. The information given in II is immaterial.

64. Option E
Explanation:

From I, total sale of product A = Rs. (8000 x 25) = Rs. 200000.

From II, we know that the company deals only in product A.

This implies that sale of product A is the total sale of the company, which is Rs. 200000.

65. Option C
Explanation:

From I, we conclude that 5th, 12th, 19th and 26th of March, 2006 were Sundays.

So, the last Sunday fell on 26th.

From II, we conclude that 31st March, 2006 was Friday. Thus, 26th March, 2006 was the last Sunday of the month.

66. B 67. B 68. D

69. Who's age do we need? Rekha's.
Present age required to be found? Yes!
Okay, so, Rekha's present age = *x*
Rekha'a age is 12 times her daughter's age.
Daughter's age = 3. Therefore, 12 times of 3 = *x*

12 x 3 = *x*
= 36 years = Rekha's age.

70. Who's 'present' age do we need to find? Norman's.
But they have also have given the ration of present ages, 4:3.
So we can use 'x' to denote both their present ages to be 4*x* and 3*x*, i.e., Amar's and Norman's respectively.
Next, 'Amar's age 6 years later', = (4*x* + 6) = 26.
x = 5 years.
Norman's present age = 3*x* = 3 x 5 = 15 years.

English

71. D 72. D 73. C 74. E 75. C

76. C 77. B 78. B 79. C 80. E 81. D

82. D 83. B 84. C 85. D 86. B

87. c) imports
88. b) economies
89. a) realised
90. e) afford
91. d) create

92. Option - (1)
Constant should replace 'constantly' – an adjective is required

93 Option - (5)

94. Option - (2)
'Excelled' should replace 'excel' – past participate form of verb is to be used after 'have'

95. Option - (4)
Resident's should be used to indicate 'of the resident'

96. Option - (2)
'To' should replace 'of' – contribute always takes the preposition 'to'

97. c
98. a
99. b
100. c