

**I - ENGLISH LANGUAGE**

**Directions (1-10):** Which of the following phrases given below the sentence **can replace** the words/phrase given in **bold** in the sentence grammatically and meaningfully? If none of the phrases **can replace** the word/phrase given in bold in the sentence, select 'None' as the answer.

1. Bigger livestock in larger numbers in more regions has led to methane in the air climbing **faster than predicted**.

- A. more than ever
- B. more rapidly than expected
- C. accelerated pretty fast

(1) Only A & B (2) Only B (3) Only A  
(4) None (5) Only B and C

2. E-commerce companies **could see** a cash burn of up to \$500 million during this year's festive sales, compared to about \$300-350 million last year.

- A. affects
- B. reflects
- C. got notice

(1) Only C (2) None (3) Only A and C  
(4) Only A (5) Only B

3. Symptoms of the "Group think" process include the suppression of negative point of view **for the sake of group unity**.

- A. group activity carried without disruption
- B. to maintain cohesion within the group
- C. for the sake of harmony within the group

(1) Only A & B (2) Only B (3) Only C  
(4) None (5) Only B and C

4. As more banks are moving to real time payments, the annoying wait for a payment to transfer to or from your account will soon **be a thing of the past**.

- A. be time gone out.
- B. be done away with
- C. become history

(1) Only B (2) Only A (3) Only B and C  
(4) None (5) Only A and C

5. A supply chain will function only when active parties are **sufficiently compensated** for the work completed.

- A. adequately paid
- B. satisfactorily taken care off
- C. reimburse pleasantly

(1) Only A and B (2) Only B and C (3) None  
(4) All A, B and C (5) Only A

6. Chronic hunger is not famine; **it is similar to** under nourishment and is related to poverty.

- A. it is the same as
- B. is alike
- C. is akin as

(1) Only A and C (2) None  
(3) Only A and B (4) Only A (5) Only B

7. If exercise were a pill, it would **be the biggest blockbuster in** the history of medicine.

- A. be the most significant discovery in
- B. create an affect in
- C. quite a huge thing

(1) Only A (2) Only A and C (3) Only B  
(4) Only C (5) None

8. Many companies make the assumption that cash incentives **can fetch the results** that they want from their work-force.

- A. obtained the outcome
- B. increases productivity of
- C. might give them the output

(1) Only C (2) None (3) Only A  
(4) Only A and B (5) All A, B and C

9. From its community minded business and political activism to a music scene that **has quietly influence the global stage**, this town need not brag about itself.

- A. has subtly affected the global stage
- B. triggers the production in stage across global
- C. has stealthily affected to global stage

(1) Only B (2) Only A (3) Only B and C  
(4) None (5) All A, B and C

10. Positive global cues **coupled with** value buying pushed the key Indian quality indices higher.

- A. along with
- B. accessory to
- C. in addition to

(1) Only A (2) None (3) Only C  
(4) All A, B and C (5) Only A and C

**Directions (11-20):** In each of the following questions, a sentence has been split into five parts denoted by (1), (A), (B), (C) and (D). Rearrange the parts (A), (B), (C) and (D) to make the sentence both meaningfully and grammatically correct. Of the combination of the parts (A), (B), (C) and (D) given against the sentence select the combination which makes the sentence both meaningful and

grammatically correct as your answer. If the given sentence is correct as it is, select 'No rearrangement required' as your answer. Ignore the errors of punctuation, if any.

**Please note:** Consider Part (1) given in bold as correct and the rearrangement, if any, to make the sentence both meaningful and grammatically correct has to be done with parts (A), (B), (C) and (D).

**For example: My colleagues and I were (1)/decided against it. (A) / to expand but the board (B) / in favour of the proposal (C)/ to our disappointment (D)**

- (1) CBAD (2) DABC (3) BCDA  
(4) ABDC (5) No rearrangement required

As CBAD is the correct rearrangement, the correct answer is option (1).

**11. Since the advent of smart phones (1)/ they are only licensed to use it (A)/ to accept that they do not control (B)/the software in their devices(C)/consumers have been forced.(D)**

- (1) DBCA (2) No rearrangement required  
(3) DABC (4) CBAD (5) BCDA

**12. Financial firms need to view (1)/ the new law not as a burden (A)/but an opportunity as (B)/it will bring (C)/ transparency into European markets.(D)**

- (1) BCDA (2) DABC  
(3) No rearrangement required  
(4) BDCA (5) DBCA

**13. In recent days, China has (1)/ triumph of industrial policy and engineering (A)/ world's fastest long-distance bullet train (B) / set the record for the (C) / which ran between Beijing and Shanghai at 217.kmph. and is a (D)**

- (1) CBDA (2) DBAC  
(3) No rearrangement required  
(4) BDCA (5) BACD

**14. A year earlier than expected, (1)/ the world's largest, surpassed (A)/thanks to the global stock market boom (B) / Norway's sovereign wealth fund, (C)/ \$1 trillion in assets.(D)**

- (1) CADB (2) ABDC (3) BCDA  
(4) DABC (5) No rearrangement required

**15. High maintenance costs mean that (1)/the number of wealthier stations around (A) / the world is shrinking, (B)/ making it more difficult (C) / to forecast flash floods and landslides. (D)**

- (1) BCDA (2) ABDC (3) DABC  
(4) CBAD (5) No rearrangement required

**16. Researchers are now using (1)/ different computer models to examine how (A) / the climate responds to changes (B) / in carbon emission levels and to confirm (C) / that enough is being done to combat global warming. (D)**

- (1) CBAD (2) ABDC  
(3) No rearrangement required  
(4) BCDA (5) DABC

**17. At first glance, It seems that (1)/ as productivity growth seems (A) I to be weak in comparison (B)/ to other eras but economists opine otherwise (C)/ America's economy is in a nut.(D)**

- (1) DABC (2) ADBC (3) SCDA  
(4) No rearrangement required (5) ABDC

**18. Waste collectors collect four- fifths of (1)/ the city's recycled waste and (A)/ empty aluminium cans are recycled but (B)/thanks to them, 98 per cent of the country's (C) / a lot more remains to be done. (D)**

- (1) ABDC (2) BCDA (3) CBAD  
(4) No rearrangement required (5) ACBD

**19. The World Trade Organization (WTO) Is**

**(1)/all 164 members have to agree to the new rules (A) / meant to be a forum for reaching (B) / so agreement is elusive many a time (C)/ trade deals and resolving disputes but (D)**

- (1) DABC (2) BDCA (3) DBCA  
(4) No rearrangement required (5) BDAC

**20. According to the World Economic Forum, (1)/ still out- scores other rich countries (A)/ is its culture of innovation and entrepreneurship (B)/ aside from Market size (C)/the variable on which America (D)**

- (1) No rearrangement required (2) CDAB  
(3) ABDC (4) DABC (5) BCDA

**Directions (21-30):** Read the following passage carefully to answer the given questions. Certain words/phrases have been given in **bold** to help you locate them while answering some of the questions.

In a few years, the idea of receiving medical treatment exclusively at a doctor's office or hospital will seem **quaint**. Wearable technologies, implanted devices, and smart- phone apps allow continuous monitoring and create a ubiquitous 24X7, digitized picture of your health that can be accessed and analyzed in real-time, anywhere. Data gathering isn't the only force moving treatment out of the doctor's office, telemedicine, home diagnostics, and retail clinics increasingly treat patients where they live and work. With incremental

revenue cost savings and customer loyalty all up for grabs, a range of players- from consumer product companies to digital and mobile technology firms- are already fiercely staking their claim. As with the original Gold Rush of the 1840s, we believe two principal business models will emerge: Gold miners, who dig deep in one major area, and Bartenders, who offer customized and convenient options to address routine needs,

The Gold miner strategy will typically involve vertically integrated players (large institutions like insurers, hospitals, and physicians 'groups) creating medical value by better managing the health of the heaviest users of healthcare: the 30% of patients with complex conditions that comprise 75% to 80% of all medical spending. By coordinating care more effectively and offering daily support—through mobile communication and remote monitoring along with community outreach, these companies can help shift care to more timely, home-based, and less costly interventions. The Bartender strategy represents a much more dramatic transformation. In this approach, new entrant companies (often players from outside healthcare—retail, software, electronics, and apparel) focus on empowering and creating a better experience for consumers by providing detailed, personalized health information and advice. This approach is **profoundly** disruptive, in that it circumvents the doctor-patient relationship and gives people far greater choice and control over where they receive care, how, and from whom. As a renowned economist puts it, 'The digitization of human beings will make a parody out of 'doctor knows best.' For example, consider a woman with random heart palpitations. In the Gold miner approach, she would be enrolled in a preventive care program, the centerpiece of which could be an app for her phone that continually tracks cardiac activity, with the bulk of decisions centrally controlled through a clinical care team. By contrast, a Bartender approach would be to sell the patient an ECG and lifestyle app for her Smartphone and let her retain control over the data. The patient records her daily activity through the app's intuitive interface and decides whether to send the data to her doctor, to a vendor's experts, or to a computer for continuous monitoring and interpretation. The app also tracks lifestyle behaviours such as exercise, diet, sleep, and medications. As data accumulates, patterns start to emerge, such as a correlation between certain medications and the severity and frequency Of her palpitations. The app can suggest a range of Interventions, from text-alert reminders of her medication schedule to automatically notifying a

designated contact in an emergency. Every choice represents a potential revenue stream that is up for grabs between incumbents and new players.

These scenarios are already in play today. Mobile health company Alivecor sells a device that tracks ECGs via Smartphone and provides consumers options for sharing and interpreting the data with third-party vendors and doctors. Device and analytic firms such as WellDoc and Blue Star use mobile self-management programs to monitor blood sugar and offer coaching to diabetic patients. Technological advances based on the Bartender model will also push the boundaries of health-care into new retail frontiers. With patients now owning and interpreting their health data, they will enter every medical encounter armed with meaningful, personalized expertise (not just a few pages printed from the internet). When expertise becomes tailored to the individual and broadly accessible, providers must add greater value through relationship-building and a deeper understanding of patient needs.

The new companies applying the bartender approach are by no means **fringe** players. They will fundamentally restructure the flow of money in healthcare and create enormous medical value in the process. A forthcoming strategy and study of profit pools in the future U.S. healthcare value chain found that applying the Bartender model could reduce healthcare spending by \$400 billion a year by 2025. That is nearly three times the reduction we saw in a scenario in which Gold- miners dominated. The Gold miner approach represents progress. But it is incremental progress within the current healthcare model. Bartenders, by contrast, will accelerate the transformation of the industry by profoundly **challenging** the industry's current "one-size-fits-all" standard of care and centralized clinical authority.

21. Which of the following is most the same in meaning as the word '**FRINGE**' as used in the passage?

- (1) central      (2) miraculous      (3) minor  
(4) limitless      (5) miser

22. Which of the following is most nearly the **OPPOSITE** in meaning as the word '**QUAINT**' as used in the passage?

- (1) current      (2) common      (3) abhorrent  
(4) desirable      (5) unique

23. Which of the following is/are NOT TRUE in the context of the passage?

(A) Technology has forced companies to come up with unique ideas to attract consumers if they wish to prosper.

(B) Many companies have become alert to capitalize on the fact that consumers probably have become more health conscious.

(C) The Gold miner approach is more popular in developed countries as compared to Asian countries.

- (1) Both (A) & (C) (2) Both (A) & (B) (3) Only (A)  
(4) All the given options are true. (5) Only (C)

24. Which of the following is most nearly the same in meaning as the word 'PROFOUNDLY' as used in the passage?

- (1) immensely (2) lightly (3) moderately  
(4) personally (5) pragmatically

25. The author in the given passage

(1) is pessimistic about advancements in technology  
(2) Considers technological intervention in medical profession as profitable.

(3) Highlights all those given as options

(4) Focuses on the fact that companies must offer more in order to attract consumers' attention.

(5) Explains the concepts of Gold miner's and Bartender's strategies without billing in favour of either.

26. Which of the following explains the meaning of the phrase, 'The digitalization of human beings will make a parody out of 'doctor knows best,' as used in the passage?

(1) The medical profession is being saturated with highly experienced professionals.

(2) All those given as options

(4) Digitalization has turned doctors into heartless human beings.

(4) With the advent of technology, patients find to be less dependent on doctors.

(5) Visiting the doctor will never become passe.

27. As mentioned in the passage, which of the following Is/are true regarding the Bartender strategy?

(A) To be successful, it requires infrastructure-traditional office set up.

(B) Only highly experienced medical professionals are involved in the Bartenders' approach.

(C) It proposes that providing uniform services will prove to be more beneficial for consumers.

- (1) None of the options (A), (B) & (C) (2) Only (A)  
(3) Only (C) (4) Both (A) & (B) (5) Both (A) & (C)

28. Which of the following is most nearly the opposite in meaning as the word 'CHALLENGING' as used in the passage?

- (1) expecting (2) accepting (3) commenting  
(4) viewing (5) demanding

29. As mentioned in the passage, which of the following distinguishes the Gold miner approach from the Bartenders' approach?

(A) The former involves in-depth knowledge of an area while the latter involves a gamut of tools to gain knowledge.

(B) The former was introduced prior to the latter in U.S.

(C) The former approach is more reliable as in the latter there is scope for misinterpretations on part of consumers.

(D) The former restricts control to the consumer as compared to the latter which makes the patient completely in charge of his situation.

- (1) Both (A) and (B) (2) Only (D)  
(3) Both (A) and (D) (4) Both (C)&(D) (5) Only A

30. Which of the following CANNOT be suitable title for the passage?

(1) 'Customise' is The Buzz Word

(2) Changing Trends In the Field of Medicine

(3) 'E-Doctor' - Soon To Be a Reality

(4) All those given as options can be suitable titles

(5) Technology is Omnipresent

## II - QUANTITATIVE APTITUDE

31. B is 8 years older than A. C is 12 years younger than A. If 8 years hence, A's age will be 1.5 times of the average of B's age 2 years ago and C's age 2 years ago, what will be A's age after 2 years? (in years)

- (1) 28 (2) 36 (3) 30  
(4) 32 (5) 26

32. The cost price of item B is ₹200 more than cost price of item A. When item A is sold at a profit of  $x\%$  its selling price is ₹702. When item A is sold at a profit of ' $x + 16\%$ ', its selling price is ₹ 806. What would be the selling price of item B if it is sold at a profit of 20%?

- (1) ₹ 960 (2) ₹1080 (3) ₹1020  
(4) ₹900 (5) ₹1040

**Directions (33-38):** What approximate value will come in place of question mark (?) in the given questions? (You are not expected to calculate the exact value)



33.  $\sqrt{? - 44.12} \times 4.98 = 75.22\%$  of 139.77

- (1) 485 (2) 445 (3) 455  
(4) 475 (5) 465

34.  $? \div 14.77 = (26.21)^2 - (5.96)^2$

- (1) 4800 (2) 9600 (3) 6000  
(4) 7200 (5) 8000

35.  $66.79 - (4.93^3 - ?) = 14.11^2$

- (1) 149 (2) 164 (3) 172  
(4) 154 (5) 169

36.  $(\sqrt{9.11} + \sqrt{?}) \times (\sqrt{25.5} + \sqrt{3.87}) = 7^2$

- (1) 20 (2) 15 (3) 10  
(4) 5 (5) 25

37.  $\frac{168.21 + 131.75}{?} = \sqrt{397}$

- (1) 20 (2) 15 (3) 10  
(4) 5 (5) 25

38.  $27.88 \times 9.05 - 35.74 = ?^3$

- (1) 6 (2) 4 (3) 5  
(4) 3 (5) 7

39. S1 is an ascending series of 5 positive numbers; where in the difference between two consecutive numbers of S1 is 3. The lowest number of S1 is 13. If the 2nd highest number of S1 is 2 more than the lowest number of another series of 4 consecutive positive numbers (S2), what is the average of S2?

- (1) 21.5 (2) 26 (3) 22.5  
(4) 23 (5) 23.4

**Directions (40-44):** In the following questions, two equations numbered I and II are given. You have to solve both the equations and Give answer If

- (1)  $x < y$  (2)  $x > y$  (3)  $x \leq y$  (4)  $x \geq y$   
(5)  $x = y$  or the relationship cannot be established

40. I.  $6x^2 + 5x + 1 = 0$  II.  $2y^2 + 5y + 3 = 0$

41. I.  $x^2 = 4$  II.  $3y^2 + 13y + 14 = 0$

42. I.  $2x - 17x + 35 = 0$  II.  $y^2 - 7y + 10 = 0$

43. I.  $x^2 - 11x + 30 = 0$  II.  $2y^2 - 17y + 36 = 0$

44. I.  $3x^2 + 10x + 8 = 0$  II.  $2y^2 + 9y + 10 = 0$

45. Sum invested in scheme A, which offers compound interest (compounded annually) at 10% p.a., is 50% of that in scheme B, which offers compound interest (compounded annually) at 20% p.a. The duration of investment in each of the

schemes is 2 years. If the difference between the amounts received from schemes A and B is ₹3507, what is the sum invested in scheme B? (in rupees)

- (1) ₹ 4500 (2) ₹ 4200 (3) ₹ 4250  
(4) ₹ 4400 (5) ₹ 4260

46. Car A left from a point (P) at 9 am at a speed of 45 km/hr. Car B left from P in a direction same as that of Car-A at 9:30 am at a speed of 'x' km/hr. If car-B travelled 90 km before it met car A, what is the value of x? (Both cars travelled at constant speeds throughout)

- (1) 60 (2) 90 (3) 120  
(4) 80 (5) 75

47. The height of a right circular cylinder (C) is equal to the diameter of a semicircle of area  $12.5\pi cm^2$ . If C's base radius is 80% of C's height, what is the curved surface area of C? (in  $cm^2$ )

- (1)  $160\pi$  (2)  $80\pi$  (3)  $120\pi$   
(4)  $140\pi$  (5)  $175\pi$

48. Every month out of his monthly salary, A Invested 20% in mutual funds, paid ₹ 2000 for buying groceries and gave ₹ 2500 to his maid. The remaining salary he deposited in his bank account. The amount he deposited in the bank in a year was 520% more than the amount he paid to his maid in the same year. What is his monthly salary?

- (1) ₹ 20,000 (2) ₹ 40,000 (3) ₹ 25,000  
(4) ₹ 35,000 (5) ₹ 30,000

**Directions (49-54):** Study the table and answer the given questions.

**Data related to number of members in 4 clubs:**

Name of the club	Numbers of members	Out on number of members	
		Number of Gold members	Number of silver numbers
M	3600	1840	840
N	3000	1220	960
O	4200	1600	720
P	4000	2320	1180

**Note:** In each of the given clubs there are only three types of members- gold, silver and bronze.

49. In club P, number of gold members is what percent more than number of bronze members?

- (1) 364 (2) 344 (3) 396  
(4) 382 (5) 336

50. If the respective ratio of the total number of silver members in clubs M and O together and the number of silver members in club E is 13 : 16, what is the number of silver members in club E?

- (1) 2080      (2) 2000      (3) 1840  
(4) 1760      (5) 1920

51. What is the difference between the total number of silver members in clubs N and O together and total number of bronze members in the same clubs together?

- (1) 940      (2) 1120      (3) 1080  
(4) 1020      (5) 920

52. In club M, 42% of the members {gold + silver + bronze} have permanent membership. If the total number of gold and silver members together who have permanent membership is 973, **approximately** what percent of bronze members has permanent membership?

- (1) 65      (2) 43      (3) 55  
(4) 59      (5) 51

53. In club M, if 30% of the gold members and 20% of silver members are females, what is the total number of gold and silver male members?

- (1) 1880      (2) 1840      (3) 1960  
(4) 1900      (5) 1920

54. What is the average number of bronze members in clubs M, O and P?

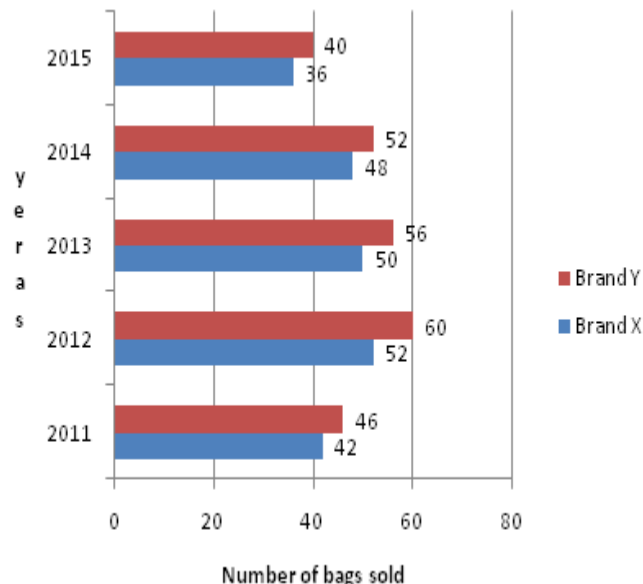
- (1) 980      (2) 1090      (3) 1210  
(4) 1100      (5) 1040

55. A jar contains apple, grapes and guava juices in the respective ratio of 4 : 12 : 15. Two litres of apple juice was added and the respective ratio becomes 3 : 8 : 10. If 42 litres of mixture is taken out, what would be the remaining quantity of mixture in the jar? (in litre)

- (1) 63      (2) 82      (3) 64  
(4) 65      (5) 85

**Directions (56-61):** Refer to the graph and answer the given questions.

Number of bags sold of two different brands, X and Y, in 5 years:



56. The number of bags sold of brand Y decreased by what percent from 2013 to 2015?

- (1)  $21\frac{8}{7}$       (2)  $29\frac{1}{7}$       (3)  $25\frac{3}{7}$   
(4)  $28\frac{4}{7}$       (5)  $22\frac{5}{7}$

57. The total number of bags sold of brand C in 2011 and 2012 together was 50% more than the total number of bags sold of both the brands (X and Y) together in 2012. If the respective ratio between number of bags sold in 2011 and that sold in 2012 of brand C was 5 : 3, what was the number of bags if brand C sold in 2011?

- (1) 115      (2) 125      (3) 95  
(4) 105      (5) 110

58. What is the average number of bags sold in 2012, 2013 and 2015 of brand X?

- (1) 44      (2) 43      (3) 45  
(4) 48      (5) 46

59. Total number of bags sold of both the brands together in 2015 is **approximately** what percent less than the total number of bags sold of both the brands together in 2013?

- (1) 35      (2) 48      (3) 28  
(4) 21      (5) 24

60. What is the respective ratio between the total number of bags sold of both the brands together in 2011 and that sold of both the brands together in 2014?

- (1) 21 : 25      (2) 23 : 27      (3) 22 : 27  
(4) 22 : 29      (5) 22 : 25

61. What is the difference between the total number of bags sold in 2012 and 2014 together of brand X and that sold in the same years together of brand Y?

- (1) 14 (2) 8 (3) 12  
(4) 15 (5) 16

62. The time taken by a boat to travel (D + 12) km upstream is double of that taken to travel 'D' km downstream. If the respective ratio between the speed of boat in still water and the speed of the current is 5 : 1, what is the value of D?

- (1) 24 (2) 36 (3) 25  
(4) 30 (5) 38

63. There are total 240 students (boys + girls) in a school who opted for either Cricket or Football. 100 students (boys + girls) opted for Cricket. Number of boys who opted for football was 106 more than those of girls. If the respective ratio between total number of boys and that of girls was 2 : 1, how many girls opted for Cricket?

- (1) 32 (2) 36 (3) 64  
(4) 63 (5) 67

64. A started a business with an investment of ₹2800. After some months B joined with investment of ₹3600 and 2 months after B joined, C joined with an investment of ₹5600. If the A's and C's share in annual profit was equal, for how many months did C invest?

- (1) 8 (2) 4 (3) 6  
(4) 5 (5) 9

65. A bag contains 2 red, 3 green and 2 blue balls. 2 balls are to be drawn randomly. What is the probability that the balls drawn contain no blue ball?

- (1)  $\frac{5}{7}$  (2)  $\frac{10}{12}$  (3)  $\frac{2}{7}$   
(4)  $\frac{11}{12}$  (5) None of the above.

### III - REASONING

**Directions (66-70):** When a number arrangement machine is given an Input line of numbers, it arranges them following a particular rule.

The following is an illustration of input and rearrangement:

(All the numbers are two digit numbers)

**Input :** 81 63 79 42 15 24 86 37 96 19

**Step I :** 15 19 81 63 79 42 24 86 37 96

**Step II :** 96 86 15 19 81 63 79 42 24 37

**Step III:** 24 37 96 86 15 19 81 63 79 42

**Step IV:** 81 79 24 37 96 86 15 19 63 42

**Step V:** 42 63 81 79 24 37 96 86 15 19

**Step V** is the last step of the above arrangement as the intended output of arrangement is obtained.

As per the rules followed in the given steps, find the appropriate steps for the given input.

**Input:** 26 69 13 82 55 21 71 34 93 47

66. Which is the fourth element to the left of the seventh element from the left end in Step III of the given arrangement?

- (1) 82 (2) 93 (3) 13  
(4) 26 (5) 55

67. What will be the resultant if the fifth element from right end in Step V is subtracted from the second element from left end in Step II as per the given arrangement?

- (1) 59 (2) 79 (3) 56  
(4) 48 (5) 67

68. In which of the following steps '26 69 55' found consecutively in the same order as per the given arrangement?

- (1) Only II (2) Both I & II (3) Both II & III  
(4) There is no such step (5) Only III

69. As per the given arrangement, in Step I '21' is related to '69' as per a certain pattern. Following the same pattern, '26' is related to '93' in Step IV. To which of the following is '47' related to following the same pattern in Step V?

- (1) 34 (2) 21 (3) 71 (4) 69 (5) 55

70. How many elements appear to the right of '26' in **Step IV** of the given arrangement?

- (1) Six (2) None (3) Two  
(4) Five (5) Seven

**Directions (71-73):** Study the following information carefully and answer the questions given below:

D is the father of only F and E. D has only one son. E is married to G. G is the son-in-law of M. H is the only son of G. K and J are the children of E. L is married to K.

71. How is M related to J?

- (1) Grdmother (2) Aunt (3) Mother  
(4) Niece (5) Granddaughter

72. How is H related to L?

- (1) Brother (2) Brother-in-law (3) Son-in-law  
(4) Nephew (5) Uncle

73. How is F related to K?

- (1) Grandfather (2) Either 'brother' or 'sister'  
(3) Aunt (4) Either 'nephew' or 'niece' (5) Uncle

**Directions (74-75):** In these questions, relationship between different elements is shown in the statements. The statements are followed by two Conclusions numbered I and II. Study the conclusions based on the given statements and select the appropriate answer.

Give answer (1) if neither Conclusion I nor Conclusion II is true

Give answer (2) if only Conclusion I is true

Give answer (3) if either Conclusion I or Conclusion II is true

Give answer (4) if both the Conclusion I and Conclusion II are true

Give answer (5) if only Conclusion II is true

**74. Statements:**  $B \leq O = L < D$ ;  $P \geq C \geq A = L$

**Conclusions I.**  $P = B$

**II.**  $B < P$

**75. Statements:**  $P \geq O \leq L < E$ ;  $S \leq O \geq A = K$

**Conclusions: I.**  $E < S$

**II.**  $K \leq P$

**Directions (76-80):** Study the following information carefully and answer the questions given below:

Eight people viz. A, B, C, D, E, F, G and H are sitting around a square table in such a way that four of them sit at four corners of the table while four sit in the middle of each of the four sides, but not necessarily in the same order. The ones sitting in the middle of the sides are facing the centre and the ones sitting at the corners of the table are facing outside (i.e. opposite to the centre).

A sits in the middle of one of the sides. C is an immediate neighbour of A. E sits second to the left of C. Only three people sit between E and G. Only two people sit between G and D (either from left or right). D is not an immediate neighbour of C. B sits second to the right of D. F sits second to the right of B.

**76.** How many people sit between C and H when counted from the left of H?

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

**77.** Which of the given statements is not true as per the given arrangement?

- (1) G sits at one of the corners of the table.  
(2) All the given statements are true.  
(3) Only three people sit between F and D.  
(4) B and F face the centre.  
(5) E sits second to the right of F between F and D.

**78.** Which of the following pairs represents the people sitting between H and F, when counted from the left of F?

- (1) G, B (2) C, G (3) C, E  
(4) A, D (5) B, D

**79.** As per the given arrangement, four of the following five are alike in a certain way and thus they form a group. Which one of the following does not belong to that group?

- (1) C (2) D (3) H  
(4) O (5) E

**80.** Who sits third to the left of B?

- (1) O (2) A (3) E  
(4) H (5) C

**Directions (81-85):** Study the following information carefully and answer the questions given below:

Eight people viz. P, Q, R, S, T, U, V and W are sitting in a straight line facing north with equal distance between each other. Each of them teaches a different subject viz. Chemistry, History, Mathematics, English, Physics, Biology, Geography and Social Science. (Note: None of the given information is necessarily in the same order.)

P sits third from the left end of the line. Only one person sits between P and the one who teaches English. Only three people sit between the one who teaches English and R. As many people sit to the right of R as to the left of the one who teaches Social Science. Only three people sit between the one who teaches Social Science and W. No one sits between W and the one who teaches History. As many people sit to the left of the one who teaches History as to the right of T. Only one person sits between T and V.

The one who teaches Mathematics sits to the immediate right of the one who teaches Physics. The one who teaches Mathematics is an immediate neighbour of V. Only one person sits between Q and the one who teaches Mathematics. More than four people sit between Q and the one who teaches Chemistry. U sits to the immediate left of S. U does not teach Geography.

**81.** How many people sit to the right of U?

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



82. Four of the following five are alike in a certain way based on the given arrangement and thus they form a group. Which one of the following does not belong to that group?

- (1) Q – Physics (2) T - English  
(3) S - Chemistry (4) P - Biology  
(5) W - History

83. Which of the following statements is true about the one who teaches Geography as per the given arrangement?

- (1) The one who teaches Geography sits second to the left of P.  
(2) Only one person sits between T and the one who teaches Geography.  
(3) V sits to the immediate left of the one who teaches Geography.  
(4) None of the given statements is true.  
(5) Less than two people sit between the one who teaches Geography and English.

84. What is the position of the one who teaches Chemistry with respect to V?

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

85. Who sits third to the left of 5?

- (1) T (2) The one who teaches Mathematics  
(3) P (4) The one who teaches Biology  
(5) The one who teaches Social Science

**Directions (86-90):** Study the following information carefully and answer the questions given below:

**In a certain code language,**  
“With all caring friends” is written as “bs up ck lq”  
“all the time dancing” is written as “av tn lq og”.  
“friends dancing and singing” is written as “tn dz up ry”  
“caring and loving people” is written as “dz xn bz eh”

(Note: All the codes are two letter codes only)

86. How may “all singing song” be coded as in the given code language?

- (1) ry sf lq (2) ry bs up (3) av lq ry  
(4) sf tn ry (5) ry lq eh

87. What is the code for “time” in the given code language?

- (1) Either ‘lq’ or ‘tn’ (2) up (3) tn  
(4) Either ‘av’ or ‘og’ (5) Either ‘xn’ or lq’

88. If “people dancing together” is coded as “tn gi xn”, then how will “loving friends together” be coded as in the given code language?

- (1) av dz up (2) eh gi dz (3) gi up lq  
(4) eh dz up (5) gi up eh

89. What does the code ‘ck’ stand for in the given code language?

- (1) friends (2) all (3) with  
(4) singing (5) caring

90. What does ‘bs dz’ stand for in the given code language?

- (1) and with (2) and caring (3) caring with  
(4) with the (5) and the

**Directions (91-95):** Study the following information carefully and answer the questions given below:

Seven people viz. T, U, V, W, X, Y and Z study in three branches of an engineering college viz. Aeronautical, Chemical and Electrical. Each of them also likes a different sport viz., Hockey, Cricket, Football, Volleyball, Boxing, Archery and Wrestling. Atleast two people study in each branch.

(Note: None of the given information is necessarily in the same order).

T studies in Aeronautical with only the one who likes Archery. The one who likes wrestling studies with the one who likes Hockey. U studies with W and the one who likes Cricket. Neither U nor W likes either Wrestling or Hockey. Z studies with the one who likes Boxing. Neither T nor U likes Boxing. Y studies with V. V neither studies Electrical engineering nor likes Wrestling. T does not like Volleyball.

91. Who amongst the following studies Chemical Engineering?

- (1) V (2) U (3) The one who likes Volleyball  
(4) W (5) The one who likes Cricket

92. Which of the following is true as per the given arrangement?

- (A) Y likes Cricket.  
(B) X studies Aeronautical Engineering..  
(C) The one who likes Boxing Studies Electrical Engineering.  
(1) Only C (2) Only A (3) Both A and B  
(4) Only B (5) Both B and C

93. Which sport does X likes?

- (1) Wrestling (2) Archery (3) Boxing  
(4) Volleyball (5) Cricket

94. Four of the following five study in the same branch based on the given arrangement and thus they form a group. Who amongst the following study in different branch as per the given arrangement?

- (1) T – X (2) Football-Archery  
 (3) Wrestling-Boxing (4) Y - Hockey  
 (5) W - Volleyball

95. Who amongst the following likes Football?

- (1) W (2) U (3) V (4) T (5) Y

**Directions (96-100):** Study the following information carefully and answer the questions given below:

Seven people viz. J, K, L, M, N, O and P advertise for a brand viz. Fastrack, Biba, Nike, Puma, Marlgo, Vivo and Zara In seven different months of the same year viz... February, April, May, June, August, September and November.

(Note: None of the given information is necessarily in the same order. No one advertises in any other month of the given year.)

Only two people advertise between P and the one who advertises for Puma. P advertises in a month having 31 days. More than three people advertise between the one who advertises for Puma and the one who advertises for Biba. Only three people advertise between the one who advertises for Biba and K. No one advertises between K and the one who advertises for Mango. Only three people advertise between O and L. L advertises in one of the months before O. The one who advertises for Fastrack advertises in a month immediately before the one who advertises for Nike. Only two people advertise between N and the one who advertises for Vivo. Only one person advertises between M and the one who advertises for Zara. M advertises in one of the months before June.

96. Who advertises in the month of April?

- (1) The one who advertises for Fastrack  
 (2) N (3) The one who advertises for Puma  
 (4) J (5) M

97. How many people advertise between M and the one who advertises for Nike?

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

98. Advertisement for Mango is done in which month?

- (1) April (2) September (3) August  
 (4) June (5) May

99. As per the given arrangement. L is related to the one who advertises for Zara following a Certain pattern. In the same pattern. N is related to the one whom advertises for Fastrack. Following the same pattern to whom amongst the following is O related to?

- (1) Biba (2) Puma (3) Mango  
 (4) Vivo (5) Nike

100. Which of the given combinations is correct as per the given arrangement?

- (1) J - Zara (2) L-May (3) N - Fastrack  
 (4) O- November (5) M-Vivo

**ALL THE BEST**

ANS:

1.1	2.2	3.5	4.3	5.5	6.3
7.1	8.1	9.2	10.5	11.1	12.3
13.1	14.1	15.5	16.3	17.1	18.5
19.5	20.4	21.3	22.1	23.5	24.1
25.5	26.4	27.1	28.2	29.3	30.4
31.3	32.3	33.1	34.2	35.4	36.5
37.2	38.1	39.1	40.2	41.4	42.4
43.2	44.4	45.2	46.1	47.1	48.3
49.1	50.5	51.4	52.4	53.3	54.4
55.2	56.4	57.4	58.5	59.3	60.5
61.3	62.2	63.4	64.3	65.2	66.2
67.4	68.1	69.3	70.5	71.1	72.2
73.5	74.3	75.5	76.4	77.5	78.1
79.2	80.3	81.1	82.4	83.3	84.2
85.5	86.1	87.4	88.5	89.3	90.2
91.1	92.5	93.2	94.3	95.4	96.3
97.2	98.4	99.1	100.5		

**Want to pass – sources  
 Everywhere  
 Want a job – resources  
 At MSB**

[www.maruthischoolofbanking.com](http://www.maruthischoolofbanking.com)

For Answer Key and more Updated Materials