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REASONING APTITUDE MATHEMATICAL OPERATION

1. Replace ‘-’ with ‘%’ and ‘%’ with ‘-’ similarly 1 with 10 and 10 with 1.
Finally substitute the replaced
Values and check all the four options
Choice 4
2. The given expression will become $1 + 3 \div 2 \times 8 - 4 = 9$
Choice 2
3. Checking each of the four options we will get none of these the
answer
Choice 4
4. Replace * with + and + with * similarly 1 with 10 and 10 with 1. Finally
substitute the replaced Values and check all the four options
Choice 4
5. If the signs are changed according to the first option the equation is
satisfied.
Choice 1
6. If the signs are changed according to the second option the equation is
satisfied.
Choice 2
7. Insertion of \times, \div, \times in that order will made $12 \times 4 \div 2 \times 1 = 24$
Choice 2
8. $40 + 20 - 30 \div 6 = 60 - 5 = 55$.
Choice 3

9. $12 \div 8 \times 4 - 2 + 1$ would mean $12 + 8 \div 4 \times 2 - 1 = 12 + 4 - 1 = 15$

Choice 1

10. $10 + 8 - 6 \times 4 \div 2$ would mean $10 + 8 - 6 \times 4 \div 2 = 18 - 6 \times 2 = 6$

Choice 2

11. $6a7b8c8d2 = 6 + 7 - 8 \times 8 \div 2 = -19$

Choice 3

12. $(8c7)c(7a5)b(6d3)d(3b2)$ becomes $56 \times 12 - 2 \div 1 = 670$

Choice 3

13. The expression contains a division by 0, hence is undefined.

Choice 4

14. $(4 - 3 - 5 \times 1 \div 4) \times (5 - 2 - 3 \times 1 \div 4) = (1 - 5 \div 4) \times (3 - 3 \div 4) = -9/16$

Choice 4

15.

16. $32 - 8 \div 2 \times 3 + 4 = 32 - 12 + 4 = 16$

Choice 4

17. $2 + 3 - 4 * 5 / 1 \Rightarrow 5 - 20 \Rightarrow -15$

Choice 3

18. $4 + 4 \times 4 \div 4 - 4 = 8 - 4 = 4$

Choice 2

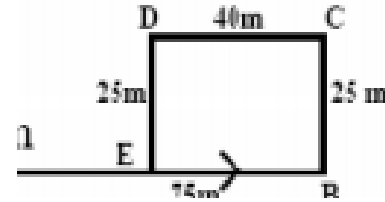
19.

20. Answer is 24. Because the relationship is given equations are multiplied and added with 6,8,10 respectively. So next we have to add 12. $(2 * 6 + 12 = 24)$

Choice 4

DIRECTION TEST

1. The movements of Deepak are shown in the figure



Clearly, $EB = BC = 40m$

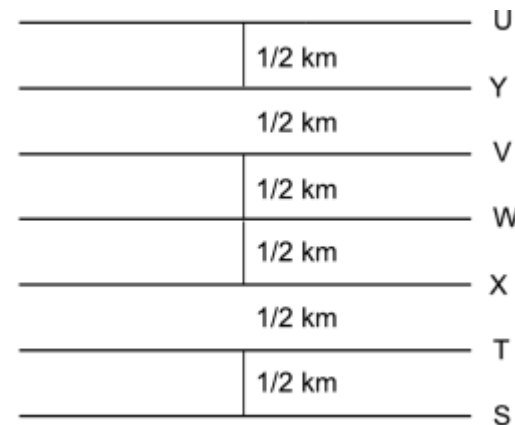
Therefore Deepak's distance from the starting point

$A = AB - EB$

$= 75 - 40 = 35 \text{ meters}$

- Choice.2

2. Y is 1.5 km north of west is correct in all cases as the figure between X, W and V shows. Choice.4



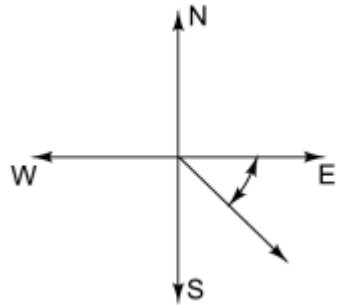
3. Choice.1

4. To get to the answer we must assume Amar to at be the point of dissection of the two direction lines. After walking half the distance, Amar will reach the mid of diagonal, then turn right and face northwest and after that would face the southwest direction when he turns left Choice.4

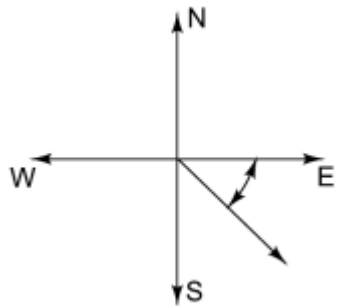
5. Choice.3

6. Choice.1

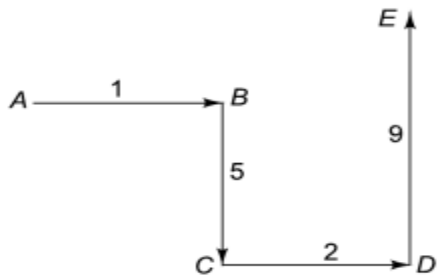
7. It would be southwest



8. It would be southwest



9.

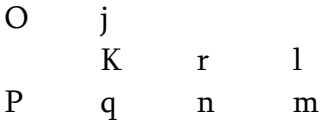


Choice.4

Choice.4

10. $d(AE)=\sqrt{(3^2 + 4^2)}= 5\text{km}$ Choice.1

11. The following figure represents the positioning of the nine huts



Choice.1

12. Choice.4

13. Choice.4

14. Choice.4

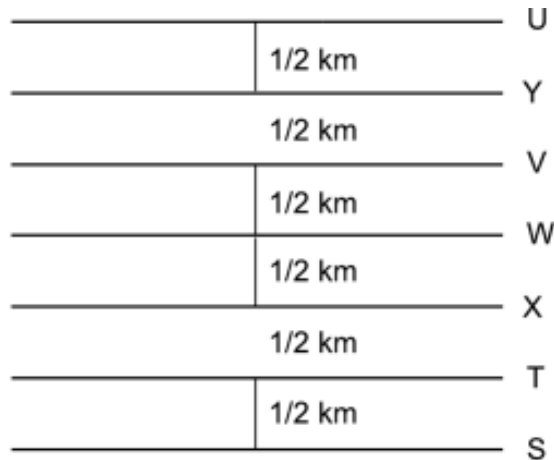
15. Choice.2

16. Choice.2

17. Choice.1

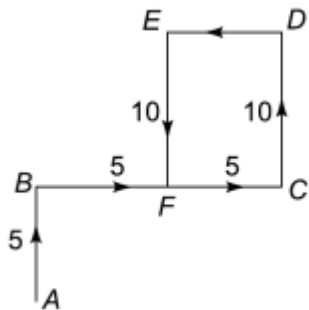
		U
	1/2 km	Y
	1/2 km	V
	1/2 km	W
	1/2 km	X
	1/2 km	T
	1/2 km	S

18. If R is placed between O and P, Q to N would be a minimum of 1.5 and a maximum of 2kms



Choice.4

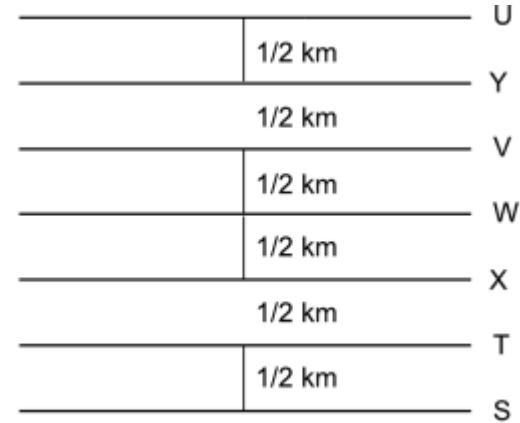
19.



If A is the starting point:

The required distance is seen on $AF = \sqrt{50} = 5\sqrt{2}$ Choice.3

20. If R is 1/2 km east of O, then R and P would coincide. Choice 4 makes two streets coincide

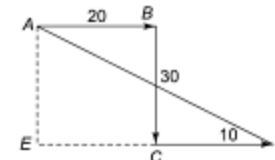


Choice.4

21. Choice.4

22. Choice:3

23.

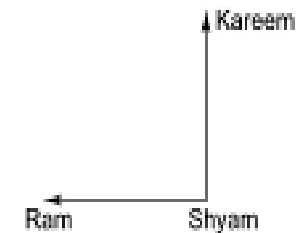


24. Distance $AD = \sqrt{1800} = 30\sqrt{2}$

Choice.3

25. Choice.1

Explanation:



He will be northeast.

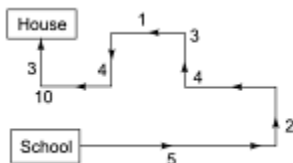
26. Choice.3

27. The following figure represents the position of the nine huts

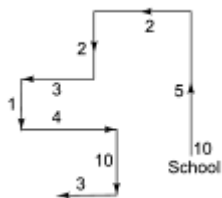
o j
k r l
p q n m

Choice. 3

28.



According to this figure the house is northwest

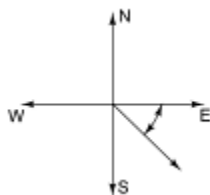


29. According to this figure the house is southwest. Since we do not know the starting direction, we cannot determine the answer. Hence Choice4 is the correct answer.

Choice.4

30. Choice.2

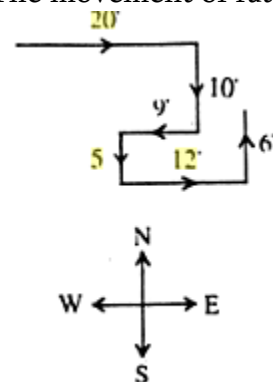
31.



32. From the figure it is clear that there has to be a 45' counter clockwise rotation. Hence, North would become northwest.

Choice.1

33. The movement of rat is as follows



Te faces towards North.

Choice.3

34. Choice.2

LR – RANKING

1. The tallest house is T and its colour is blue. Choice:2

2. From the statements VII,VIII and IX, we get

P	U
	Orange
R	Q
Yellow	Green

Then T is opposite to S and the colour of S is red. From (x), the colour of the house P is white, hence the colour of house T is blue.

P	U	S
White	Orange	Red
R	Q	T
Yellow	Green	Blue

Now from V and X, we get

$T > S, Q > P > R$

From VI, U is the shortest

Choice: 4

3. The tallest house is T and its colour is blue. Choice: 4

4. Choice: 2

5. Choice: 3

6.

7.

8.

9. Choice: 4

10. Choice: 4

11. Ben gets a chance to eliminate (clue i). Frank gets a chance to eliminate (clue iii). Devon gets a chance to eliminate (clue viii). Only Charlie gets a chance to eliminate someone. Choice: 2

12. Frank and Ian satisfy the condition of not being in the top four in any event. Of them Ian would not get eliminated (clue ix). Frank would get eliminated (clue iv). Choice: 4

13. Gary who is getting eliminated by Clue vi would not be eliminated due to this clue. Choice: 1

14. Clue 2 does not have any usage in this question. Choice: 1

15. John is getting eliminated due to clue viii, which pertains to 9th rank in the event D. Also, Devon is getting eliminated due to maximum number of last ranks, which would no longer be true.

Choice: 4

16. The second tallest house is either S and Q. Choice: 3

Questions: 14 to 17

Stage I:

B lost at least one match. D and E lost one match each

C and F have lost two matches each.

i.e A is the top team of Stage I and has won all the three matches in Stage I

Hence, A and F did not play against each other in stage 1.

Also, B D and E have won at least one match. Hence, C and F must have lost all the 3 matches in Stage I.

Thus, the 9 matches played in Stage I are:

D(Won) x C(Lost)	E(Lost) x B(Won)	A(Won) x B(Lost)
D(Won) x F(Lost)	E(Won) x C(Lost)	A(Won) x C(Lost)
D(Lost) x A(Won)	E(Won) x F(Lost)	B(Won) x F(Lost)

Stage II:

The 6 matches played in Stage II are as follows:

A x E	B x C	D x E
A x F	B x D	C x F

The leader of Stage I i.e A lost both his matches.

Two teams at the bottom after stage I and C and F.

Since, F lost against A, F lost against C also.

And C won against B and F

A(Lost) x E(Won)	B(Won) x C(Lost)	D(Lost) x E(Won)
A(Lost) x F(Won)	B(Won) x D(Lost)	C(Lost) x F(Won)

Now, the only other team that lost both the matches is D

17. Choice:4

18. Choice:5

19.

20. Choice:5

21. Choice:2

22.

1st letter	2nd letter	3rd letter	Total number of letters
5 ways	(m) 1 way	4 ways	$= 5 \times 1 \times 4 = 20$
5 ways	(n) 1 way	2 ways (e or u)	$= 5 \times 1 \times 2 = 10$
	(P) 1 way		$= 5 \times 1 = 5$
			Total number of ways
5 ways			$= 20 + 10 + 5 = 35$
(a - a, o - o, e - e), (i - i, u - u)			

Choice:2

23.

1st letter	2nd letter	3rd letter	Total number ways
a, i, o, u	m	e	$4 \times 1 \times 1 = 4$
a, e, i, o, u	n	e	$5 \times 1 \times 1 = 5$
e	p	e	$1 \times 1 \times 1 = 1$
			Total number of ways = 10

Choice:3

24.

Choice:2

BLOOD RELATION

1. Choice 3

2. Choice 3

3. $h+i*j+k*l+m*n$ means h is the daughter of i, i is the brother of k, k is the brother of l, l is the daughter of m and m is the brother of n. thus if m and n are the 1st generation, k and l are the 2nd, i and j are 3rd generation, h is the 4th generation. To solve the question in short, you only need to realize that the use of + sign signifies a generation change. Since the +sign is used thrice, h must be the 4th generation. So option (c). Choice 3

4. The man is the son of the woman's mother's brother that makes the man and the woman cousin. So option (c) is correct. Choice 3

5. Choice 4

6. It makes the man the brother of the woman's mother, that makes the woman the man's niece. So option (c) is correct. Choice 3
7. Only the son of my mother, means me. Hence, the situation transforms into I am her husband. Hence the lady is the man's wife. So option (a). Choice 1
8. Anwar's father being the only son of Mahesh's father means that Mahesh must be Anwar's father. So option (a). Choice 1
9. $p+q-r*s/t$ reads as: p is the sister of q, q is the brother of r, r is the daughter of s and s is the mother of t. so option (b). Choice 2
10. Consolidating all the relationships we get : Q is mother of S and P(brothers) Also, S's wife is T and their son is R. S, P and R are males. Hence option (c) is correct. Choice 3
11. Consolidating all the relationships we get : Q is mother of S and P(brothers) Also, S's wife is T and their son is R. Raman's brother's sister would be same as Raman's Sister. This makes Raman son of the mother and the brother of the person. While the person would become Raman's sister. Hence option (d) is correct. Choice 4
12. A's mother's son's only sister is B means B is A's sister. B is the mother of C's daughter means C is B's husband. C is B's husband and B is A's sister means A is the brother-in-law of C. Choice 2
13. Looking at it from Manisha's perspective, my father-in-law's only son would be my husband. Thus the youngest son of this person

would also be Manisha's son. Hence the person's father would be Manisha's husband and Manisha would be wife. So option (c) Choice 3

14. A,B,C are siblings and brothers of each other. D is their sister but we cannot say anything about E's sex(whether E is female or male and hence brother or sister is unknown) so option (d). Choice 4
15. Go through the option, l/m means l is the mother of m. $m*n$ means m is the daughter of n. thus m must be the daughter of l and n. hence option (a). Choice 1
16. $p-q+r*s$ reads as p is the husband of q, q is the daughter of r and r is the brother of s. thus q must be s's niece. So option (a). Choice 1
17. It is clear that s's sex cannot be determined. Hence the relationship between n and s cannot be determined. Choice 4
18. $l+m-n+o-p*q$ can be read as l is the sister of m, m is the brother of n, n is the sister of o, o is the brother of p and p is the daughter of q. thus l, n, and p are females, m and o are males and we do not know about q's sex. Hence, we cannot be sure about the number of females in this relationship string. So option (d). Choice 4
19. Sunny must be B's son. So option (c). Choice 3
20. $p*q-r$ can be read as p is brother of q and q is the husband of r. Thus p must be the brother-in-law of r. Choice 4

21. Victor's brother's sister's father will be Victor's father as well as and the daughter of the father will be Victor's sister. Hence, option (d). Choice 4

22. Mother, hence, option (b). Choice 2

23. Grandson of my mother means my son. My son's sister means my daughter. Choice 1

24. From Devika's perspective, wife of my husband means me. Then, my son's sister means my daughter. Choice 3

25. Wife + two daughters + 3 wives of the three sons = 6. Choice 2

26. Option (b) says, $a - b \times c$, this does not hold since a must be the husband of b(who is female) and b is the brother of c(which cannot happen). Hence, option (b). Choice 2

27. Option (c) says, $p - r + q$, p is sister of r means, p is aunt to q. Because q is a daughter of r. Choice 3

28. P is S's brother, Hence, (b). Choice 2

29. The son of my wife's father-in-law would be either me or my brother. Since Arun says that he met this person it must be the brother. Hence, option (a). Choice 1

30. $a \times b \times c \times d$ means a is the brother of b, b is the brother of c and c is the brother of d. This makes options (a), (b) and (d) as correct. Only option (c) is not necessarily true since d could be b's sister

too. Hence, (c) is the answer.

Choice 3

STATEMENT AND ASSUMPTION

1. Clearly, the penalty is imposed to prevent people from misusing the alarm chain. This means that some people misuse it. So, I is implicit. The alarm chain is provided to stop the running train in times of urgency. So, II is also implicit. Choice E

2. The performance of the individual has to be tested over a span of time as the statement mentions. So, I is implicit. The statement mentions that the individual's worth shall be reviewed (during probation period) before confirmation. So, II is also implicit.

Choice E

3. The statement talks of number of cases of food poisoning due to consumption of liquor and not of the number of cases consuming liquor. So, I is not implicit. Besides, the statement indicates that people in rural areas are getting spurious or low-grade liquor and no check is being kept on shops selling liquor there. So, II is implicit.

Choice B

4. Clearly, treatment of addiction requires personal attention as the first step. So, I is implicit. Also, since intimacy and personal attention are required to treat addicts, it implies that addiction arises out of frustration due to strained relationships. So, II is also implicit.

Choice E

5. The statement mentions that concessions should not be given to people who can afford to spend holidays in hill stations. This means they should

be given only to needy persons. So, I is implicit. But, II does not follow from the statement and is not implicit.

Choice A

6. The words 'Like a mad man' show that either a person is really mad or he is not mad but acted like mad. So, either I or II is implicit.

Choice C

7. Clearly, nothing is mentioned about the professional nature of the job. So, I is not implicit. The statement hints that one rejects a thing that is easy to achieve. So, II is implicit.

Choice B

8. Such decisions as given in the statement are taken only after taking the existing vacancies into consideration. So, I implicit while II is not.

Choice A

9. Since the statement holds the product of company X more superior in quality than that of Y which spends more on advertisement, so I is not implicit. According to the statement, the product of company Y is more known because of more advertisement. So, II is implicit.

Choice B

10. The mother warns her child with the expectation that he would stop troubling her. So, I is implicit. The general nature of children cannot be derived from the statement. So, II is not implicit.

Choice A

11. Clearly, such decisions are taken only after making sure that it will not affect the company's business adversely. So, I is implicit. However,

the impact of this increase on other airlines cannot be ascertained. So, II is not implicit.

Choice A

12. Clearly, the comparison could not be made without knowing the sale of all the radio sets. So, I is implicit. The statement mentions only that the sale is largest and nothing is mentioned about the manufacture. So, II is not implicit.

Choice A

13. The lacking in first four or five years can be adverse because it is the main period of development. So, I is implicit. Since nothing is mentioned about the predictability of intelligence, II is not implicit.

Choice A

14. A has advised B the route to Jammu. This means that B wishes to go to Jammu. So, I is implicit. The statement mentions only A's advice to B. So, II is not implicit.

Choice A

15. I directly follows from the statement and so is implicit. Also, the statement is a suggestion and does not tell about a government policy or its position of funds. So, II is not implicit.

Choice A

16. According to the statement, the campaign did not get any response from citizens. This means that people are not interested in keeping the city clean and the campaign has failed. So, both I and II are implicit.

Choice E

17. The district administration has issued a circular to make the farmers aware of hazards that indiscriminate use of pesticides poses to ground water and plead them to refrain from the same. So, II is implicit. However, I cannot be assumed from the given statement and so it is not implicit.

Choice B

18. Since inequality can be reduced, it means that it is not natural but created. So, I is implicit. Nothing is mentioned about people's response. So, II is not implicit.

Choice A

19. The statement mentions that the company intends to provide accommodation only to outside candidates. This means that local candidates would have to arrange accommodation on their own and that the company may select local as well as outside candidates. Thus, only I is implicit.

Choice A

20.

STATEMENT AND CONCLUSION

1. The statement mentions that demand for oil is increasing faster than the production. So, either the demand must be reduced or oil must be imported to cope with the increasing demand. Thus, either I or II follows.

Choice 3

2. The slogan given in the statement is definitely a catchy one which indicates that catchy slogans do attract people. So, I do not follow. Nothing about people's preference for colors can be deduced from the statement. Thus, II also does not follow.

Choice 4

3. The statement stresses the need to adopt a new method of examination. So, I do not follow. However, II directly follows from the given statement.

Choice 2

4. According to the statement, funding is necessary to improve quality and India is allocating funds to education. This means that quality of education will improve in India. So, I follow. But

funding alone is sufficient to enhance quality, is not true. So, II does not follow.

Choice 1

5. Whether the national norm is appropriate or not cannot be said. So, I do not follow. However, more number of beds per thousand populations is available in the state. So, II follows.

Choice 2

6. The statement clearly implies that it is easier to say than to do something and what people say is different from what they do. So, both I and II follow.

Choice 5

7. Investment in securities involves risk. This does not mean that one should not invest in securities. So, I do not follow. Since the statement advises one to consult investment advisor before investing, so II follows.

Choice 2

8. The availability of vegetables is not mentioned in the given statement. So, I does not follow. Also, II is not directly related to the statement and so it also does not follow.

Choice 4

9. Nothing about the growth of economy is mentioned in the statement. So, I do not follow. Also, it is given that 35 per cent of national income is shared by 10 per cent of households. This indicates unequal distribution. So, II follows.

Choice 2

10. Clearly, the new scheme intends to develop interest in reading by incorporating the habit in their routine. So, only II follows while I do not.

Choice 2

11. It is mentioned in the statement that one who considers price and quality before buying a product should buy the product of company X. So, both I and II follow.

Choice 5

12. Since the accident has caused concern, it must be fatal. So, I follow. The use of the word 'again' in the statement justifies the fact mentioned in II. So, II also follows. Choice 5
13. The statement clearly mentions that fulfilling the eligibility criteria and submitting the application before the stipulated date are both essential to avoid rejection. So, I follow. Also, since it is given that the candidates whose applications are rejected shall not be called for written test, so II also follows. Choice 5
14. The statement mentions the problem of increased migration of children to cities. But the ways to deal with the problem cannot be deduced from it. So, neither I nor II follows. Choice 4
15. Sunita has a very busy schedule. This means that she is industrious. But still she finds time for rest. This means that she is an organized person. So, both I and II follow. Choice 5
16. Nothing about the relation between political freedom and democracy is mentioned in the statement. So, I do not follow. But II directly follows from the given statement. Choice 2
17. The statement asserts that people cannot stand any particular trend for long and seek change quite often. So, only II follows. Choice 2
18. It is mentioned in the statement that either the managers should resign by the next day or their services would be terminated. So, either I or II follows. Choice 3
19. The statement mentions that the candidates who have obtained second class Master's degree or have appeared for the final year examination of Master's degree, can apply for admission. This implies that both types of candidates may be selected on certain grounds. Thus, some candidates of each type and not all

candidates of any one type may be selected. So, neither I nor II follows. Choice 4

20. The statement talks of jade plants only and not 'all plants with thick leaves'. So, I do not follow. Also, since jade plants require little water, so they can be grown in places where water is not in abundance. So, II follows. Choice 2

SEQUENCE AND SERIES

- The series is in the following pattern +3, +5, +7, +9, +11, +13 then the next should be $48+15=63$. Choice 2
- The pattern is - 45, - 35, - 25 ... So, missing term = $20 - 15 = 5$. Choice 1
- All numbers are in reducing series Choice 4
- Each number is the proceeding number multiplied by -2. So, the required number is -128. Choice 2
- The letters decrease by 1; the numbers are multiplied by 2 Choice 3
- Series follows the logic of -4, -9, -16 Choice 4
- The pattern is - 21, - 19, - 17, - 15 ... So, missing term = $48 - 13 = 35$. Choice 1
- Power series continuation Choice 2
- Numbers are all primes. The next prime is 43 Choice 1

10. This is a simple subtraction series. Each number is 35 less than the previous number. Choice 1

11. This is a simple addition series; each number is 3 more than the previous number Choice 4

12. General term of series is n power n Choice 1

13. Each number is double the preceding one plus 1. So, the next number is $(255 \times 2) + 1 = 511$. Choice 2

14. The series is 256, 1024, 4096, 16384. Choice 2

15. There are two series (8, 11, 14, 17, 20) and (7, 12, 17, 22) increasing by 3 and 5 respectively. Choice 2

16. In this simple addition with repetition series, each number in the series repeats itself, and then increases by 12 to arrive at the next number. Choice 1

17. The sequence follows with +3,+4,+5,+6 Choice 3

18. Series starts with last 4 alphabets of foreign language Choice 2

19. Series continuation Choice 3

20. Each term in the series is obtained by adding 1 to the square of the preceding term. So, missing term = $(101)^2 + 1 = 10202$. Choice 3

21. The pattern is + 90 + 100, + 110 ... So, missing term = $310 + 120 = 430$. Choice 4

22. The relationship followed in each bracket is the fourth power of the first digit in the bracket. Choice 3

23. The series following pattern of $*7+1$. Hence the next number series is $253*7+1=1772$ Choice 2

24. Choice 2

25. There are two series, beginning respectively with 3 and 7. In one 3 is added and in another 2 is subtracted. The next number is $1 - 2 = -1$. Choice 1

26. Next series Choice 2

27. Two series are intermingled Choice 2

28. Two series are intermixed Choice 3

29. For the first alphabet we jump from one to the next alphabet and then to the right before jump. The numbers move with a gap of 2, 3, 4... For the last alphabet count Z leaving one alphabet in the count Choice 3

30. The cubes: $a(n) = n^3$. Choice 2

QUANTITATIVE REASONING

STATEMENT - COURSES OF ACTION

1. Course of action I is logical.
Choice (a)

2. Both the course of action is logical
Choice(c)
 3. A study of rival product in the market will help assess the cause for the lowering down of sales and then a suitable action can be taken.
Choice (a)
 4. The project shall be an asset and a source of income to the country later on.
Choice (a)
 - 5.
 - 6.
 7. The increase may not be a permanent one. So, it's better not to open new colleges but increase seats in the existing colleges.
Choice (a)
 8. The ideas suggested in both I and II represent unfair means to cut competition. The correct way would be to devise methods and techniques such that the indigenous producers could produce better quality fruits and make them available in the market at prices comparable with those of the imported ones. Choice (d)
 9. The problem arising is shortage of funds. So, alternative sources of financial support need to be worked out first.
Choice (b)
 10. The effectiveness of such Control Boards is established by the fact that Orissa and A.P. have agreed to it for better control of its multipurpose projects.
Choice (a)
 11. Indian companies should improve the quality to compete. Also, there is nothing wrong in searching an alternative market for boosting the business.
Choice(c)
 12. When the CBI receives even a single complaint against an officer, it is a serious matter. The CBI should try to do something and not wait for some more complaints. The CBI should investigate the matter and if possibly try to catch the officer red handed if he is corrupt.
Choice (a)
 13. The study of rival products in the market will help assess the cause for the lowering down of sales and then a suitable action can be taken.
Choice (a)
 14. The accidents can clearly be prevented by barring people from crossing the tracks when the gates are closed.
Choice (b)
 15. The situation demands that efforts be made to remove the lackeying in the present system of education and adequate measures be taken to improve the performance of students.
Choice (d)
 - 16.
 17. Need to take a action to avoid such antisocial element.
Choice (a)
 18. 18. Should prefer fruit and vegetables are preferable to capsules for their positive effect on health.
Choice (b)
 19. Both the course of action is logical
Choice(c)
 - 20.
- LR – ARRANGEMENT**
1. Choice(4)

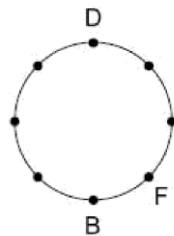
2. Choice(4)

3. Choice(3)

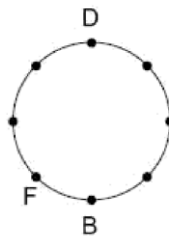
4. Choice(4)

Explanation 1 to 4:

From clues (i) and (iii), we get following two possibilities:

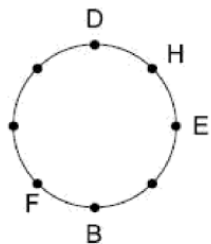


Case I

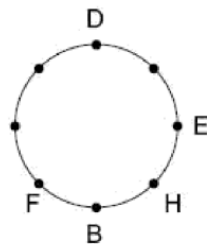


Case II

Now read clue (iv): Edward is third to the right of Fiona. This information rejects Case I. Using clue (iv), we get the following two possibilities, i.e. Case II (A) and Case II (b).

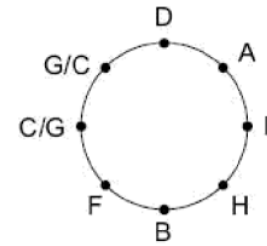


Case II (a)

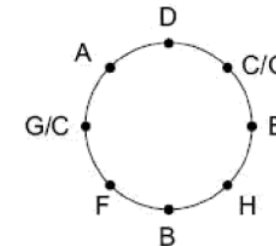


Case II (b)

Now from Clue (ii), we come to know that Dennis is not the neighbor of Herbert. Hence, reject Case II(a). From Clue (ii) we get the following two possibilities:



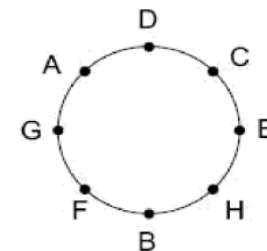
Case II (c)



Case II (d)

Now from clue (v), Chloe can't be the neighbor of glies. Therefore, reject Case II(c). Again, since Chloe can't be the neighbor of alex, the final seating arrangement will be follows:

Statement	Reaction
Statement 1	--,--,--,--,--,--,-- A,B,C,D,E,F,andG
Statement 2and 3	--,--,--,B,--,--,A,G OR --,--,--,B,--,--,G,A.
Statement 4	1 st and 5 th place must be occupied by C and D in any order.



5.The end seat have to be occuoied by either A,G,C or D.F cannit occupy any end seat.
Choice (3)

6.One of the seats adjacent to B has to be taken by either C or D.
Choice(b)

7.Team of size 3 means S,U,W is not there (as M/Q should be there in the team).

We can have P/R as 1 member. We can have M/Q as the 2nd member. We cannot have K and L, as they need to be together, and it makes the team strength a minimum of 4. The 3rd member can be N.

Choice (3)

8. Includes N.

So no L, hence no K.

One among P,R,S and one among M,Q

If S is there, then U and W should be there.

So, the possible teams are

P,M,N

P,Q,N

R,M,N

R,Q,N

S,U,W,M,N

S,U,W,Q,N

Choice(5)

9. Choice (1)

10. Choice (1)

11. Choice (3)

12. Choice (3)

13. Choice (2)

Explanation for 9 to 13:

From the clues it's evident that ACEB should be 4 people in that order and should be sitting together with no one in between. This means that they can be seated in one of the following three ways:

Possibility 1: A C E B _ _

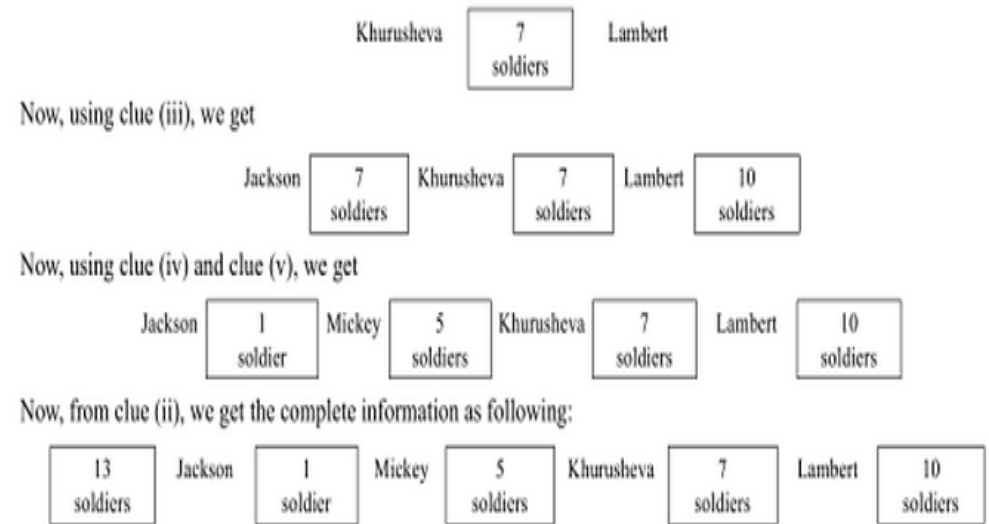
Possibility 2 : _ A C E B _

Possibility 3: _ _ A C E B

This leaves us to place two people – D and F. Since, Devdas is not at the end and Ferguson is not the right end, we know that Possibility 1 & Possibility 2 get rejected. This leaves us with Possibility 3 and final placement would be:

F D A C E B

Explanation for 15 to 17:



14. From the below explanation Khurusheva Occupy 19th position right end of the row

Choice(3)

15. Choice(4)

16. Choice(1)

17. Total no.of Soldiers = 13+3+5+1+7+1+10=40.

Choice(3)

18. Choice(4)

19. Choice(4)

20. Choice(4)

Explanation for 18 to 20:

The Starting Figure we start with e=when read the first statement is:

Monday Tuesday Wednesday Thursday Friday Saturday

From the fourth and sixth clues we have:

C-Rest day-B

Note: Putting it in a box significant that there is no break between the items in the box

Once we have these two visual representations we can go back to our original figure and think as follows:

Monday Tuesday Wednesday Thursday Friday Saturday

Since gymnasium has to precede rowing and jogging, and gymnasium is not on the first day we can have 3 possibilities for placing gymnasium – Viz: Tuesday Wednesday or Thursday.

Possibilities 1:

Monday

Tuesday

Wednesday

Gymnasium

Thursday

Friday

Saturday

This case is rejected because, once we place gymnasium we would need to place rowing and boxing in either Wednesday-Thursday or Thursday-Friday or Friday-Saturday. In each of these case, we would also need to place a 3 day period having Cycling-Rest day-Boxing. It can be easily

seen that in any of these 3 situations under possibilities, we do not have a completely free 3 day period anywhere in the week. Thus, we can reject possibility

Possibility 2:

Monday

Tuesday

Wednesday

Thursday

Gymnasium

Friday

Saturday

Rejected on the same logic possibility 1. There is no availability of 3 day window to place Cycling –Rest day-Boxing.

This is the only possibility that would work in the case, the respective work out s ordering would be

Monday

Cycling

Tuesday

Rest Day

Wednesday

Boxing

Thursday

Gymnasium

Friday

Rowing

Saturday

Jogging

CODING AND DECODING

1. Word: S P L E N D O R

Pattern: +2 *2 +2 *2 +2 *2 +2 *2

Code: U F N J P H Q J

Choice 1

2. Word: B A R R I C A D E

Pattern: The letters are arranged alphabetical order

Code: A A B C D E I R R .similarly, the code for

INDIVIDUAL is ADDIILNUV

Choice 1

3. Word: P L A T I N U M

Pattern: In the word the vowels are taken first in the same order as they are in the word followed by consonants.

Code: A I U P L T N M

similarly, the code for ADVENTURE is AEUEDVNTR.

Choice 4

4. Word: S Y M P H O N Y

Pattern: To each of these letters their opposite letters from the other end of the alphabet is given

Code: H B N K S L M B

similarly, the code for PICKLE is GMVXZQWZ

Choice 4

5. Word: C E R T I F Y

Pattern: The letters in the word is reversed and then their opposite pairs are given as their codes.

Code: B U R G I V X

similarly, the code for ADJACENT is GMVXZQWZ

Choice 2

6. Word: SEARCH

Pattern: The letters in the words are reversed and for these letters their next letters are given as their codes.

H C R A E S

+1 +1 +1 +1 +1 +1 I D S B F T similarly, the code for FURNISH is ITJOSVG.

Choice 3

7. Word: S T R U C T U R E Pattern: +1 +2 +3 +4 +5 +6 +7 +8 +9

Code: T V U Y H Z B Z N Similarly, the code for REMEDY is SGPIIE

Choice 4

8. Word: G R O U N D

Pattern: +1 -2 +3 -4 +5 -6

Code: H P R Q S X

similarly N O U R I S H -1 +2 -3 +4 -5 +6 -7 M Q R V D Y A

Choice 2

9. I N F E R =>9+14+6+5+18=52

In this the reverse of the sum of the place values of the letters in the word is given as its code. J E R S E Y =>10+5+18+19+5+25=82 and the code is 28

Similarly,

C H O I C E =>3+8+15+9+3+5=43 Therefore the code is 34

Choice 1

10. B U G =>2+21+7=30 and $30 \times 3 = 90$

In this the sum of the place values is multiplied with the number of letters in the word. A L M S => 1+12+13+19=45 and $45 \times 4 = 180$

Similarly,

C A D E T => 3+1+4+5+20=33 and $33 \times 5 = 165$.

Choice 2

11. Word: M I N U T E

Pattern: +1 +4 +9 +16 +25 +36

Code: N M W K S O

similarly, the code for REIGN is SIRWM.

Choice 4

12. Word: M Y S T E R Y

Pattern: To each of these letters their corresponding letters from the other half is given

Code: Z L F G R E L

similarly, the code for PURSUE is CHEFHR

Choice 3

13. Word: I M P O R T

Pattern: +2 +3 +5 +7 +11 +13

Code: K P U V C G

M I S C H I E F

-2 -3 -5 -7 -11 -13 -17 -19

K F N V M V N M

Choice 1

14. I M P E N D => 9+13+16+5+14+4=61.

The sum of the place values of letters in the word is given as its value.

D I S H => 4+4+19+8=40

Similarly, FRUIT => 6+18+21+9+20=74

Choice 3

15. Word: M I R A G E

Pattern: *2 *2 *2 *2 *2 *2

Code: Z R J B N J

similarly, the code for INTRUDE is RBNJPHJ.

Choice 3

16. FRAME=>6+18+1+13+5=43 AND 43+5=48

In this, the sum of the place values is added to the number of letters in the word and given as its value. H U R D L E

=>8+21+18+4+12+5=68 and 68+6=74

Similarly, FIGMENT=> 6+9+7+13+5+14+20=74 and 74+7=81.

Choice 4

17. Word: A D V A N T A G E

Pattern: For vowels their next vowels and for consonants their next consonants are given as codes. Code: E F W E P V E H I

similarly, the codes for DUPLICATE is FAQMODEVI

Choice 3

18. Word: M A J E S T Y

Pattern: +1 -1 +1 -1 +1 -1 +1

Code: N Z K D T S Z

The word which is coded as

H K J L Q R F is

-1 +1 -1 +1 -1 +1 -1

G L I M P S E

Choice 4

19. The number of letters in the given word is multiplied with a constant number 10 to get its value.

C A B I N E T has 7 letters and $7 \times 10 = 70$ B E A U T Y has 7 letters and $6 \times 10 = 60$

Similarly, PRODUCTION has 10 letters and $10 \times 10 = 100$.

Choice 2

20. Choice 1

ASSERTION AND REASONING

1.Choice A

2.Choice A

3.Both A and R is true and because of the reason the assertion is true.

Hence, Choice a is correct

Choice A

4.Explanation: Both A and R is true and because of the reason the assertion is true. Hence, Choice a is correct

Choice A

5. Both A and R is true and because of the reason the assertion is true. Hence, Choice a is correct

Choice A

6. Bats can fly in the night because they can trace the obstacles in the path by perceiving the echo of the ultrasonic sound emitted by them after it is reflected by the obstacle. Choice A
7. A and R is true, but R is not the reason for A. Choice B
8. Carbon monoxide, when inhaled, combines with hemoglobin of blood to form carboxyhaemoglobin which inhibits the transport of oxygen. Choice A
9. A and R is true, but R is not the reason for A. Choice B
10. Both A and R is true and because of the reason the assertion is true. Choice A
11. A and R is true, but R is not the reason for A. Choice B
12. Carbon forms a very large number of compounds due to its tendency to form chains and ring of varying size, called its catenation property. However the largest number of compounds is formed by the hydrogen. Choice D
13. Form chains and ring of varying size, called its catenation property. However the largest number of compounds is formed by the hydrogen. Choice D
14. In this question the Assertion is correct and Reason is also true. But the Reason (In normal distribution mean, median and mode are identical) fails to explain why the “Median is used as a measure of scale value in method of equal appearing intervals”. The correct answer, therefore, would be B [Both (A) and (R) are true but (R) is not the correct explanation of (A)]. Choice B
15. A and R is true, but R is not the reason for A. Choice B
16. Both A and R is true and because of the reason the assertion is true. Choice A
17. Clothes are not washed properly in hard water because it does not form lather with soap. However it is true that hard water contains many minerals. Choice B
18. A and R is true, but R is not the reason for A. Choice B
19. Both A and R are true but R is NOT the correct explanation of A.
Justification: Clothes are not washed properly in hard water because it does not form lather with soap. However, it is true that hard water contains many minerals. Choice B
20. Both A and R is true and because of the reason the assertion is true. Choice A
21. A and R is true, but R is not the reason for A. Choice B.

TEAM FORMATION

1. Since C and D are doctors and A is not an engineer, hence, A is a teacher.

Since A travels in a santro, C will travel an opel. Also, A and F will be together. Given A and F are pair of sisters, both are females.

In a Maruthi, only two persons B & G travel, so G is a female. Two persons belonging to the same profession do not travel in the same vehicle, so D travels in a Santro. There are two doctors, two engineers and three teachers and the person of the same profession do not travel in the same vehicle, so F is an engineer. And E is a male teacher.

Vehicle	Profession	Profession
Maruthi	B+	Engineer
	G-	Teacher
Santro	A-	Teacher
	F-	Engineer
	D+	Doctor
Opel	C-	Doctor
	E+	Teacher

Choice 2

2.

Since C and D are doctors and A is not an engineer, hence, A is a teacher.

Since A travels in a santro, C will travel in an opel. Also, A and F will be together. Given A and F are pair of sisters, both are females.

In a Maruthi, only two persons B & G travel, so G is a female. Two persons belonging to the same profession do not travel in the same vehicle, so D travels in a Santro. There are two doctors, two engineers and three teachers and the person of the same profession do not travel in the same vehicle, so F is an engineer. And E is a male teacher.

Vehicle	Profession	Profession
Maruthi	B+	Engineer
	G-	Teacher
Santro	A-	Teacher
	F-	Engineer
	D+	Doctor
Opel	C-	Doctor
	E+	Teacher

Choice 4

3.

Vehicle	Profession	Profession
Maruthi	B+	Engineer
	G-	Teacher
Santro	A-	Teacher
	F-	Engineer
	D+	Doctor
Opel	C-	Doctor
	E+	Teacher

Since C and D are doctors and A is not an engineer, hence, A is a teacher. Since A travels in a santro, C will travel in an opel. Also, A and F will be together. Given A and F are pair of sisters, both are females. In a Maruthi, only two persons B & G travel, so G is a female. Two persons belonging to the same profession do not travel in the same vehicle, so D travels in a Santro. There are two doctors, two engineers and three teachers and the person of the same profession do not travel in the same vehicle, so F is an engineer. And E is a male teacher.

Choice 2

4. Initial information:

- A (2)
- B (1)
- C (2)
- D (1)
- E (1)
- F (1)

Also, P, Q, R, S, T, U, W, X (Darkened shows female). From clue 2, Room C (2 people) and Room F (1 person) should be women's rooms as men cannot be placed there. From clue 3-P must be in E, S must be in A (where U and W cannot be). Thus S must be sharing his room with R. Also U and W must be in some random order in rooms B or D. Also, X must be in Room F as she is a female and wants a single room.

Collating all this we get:

- A (2) S, R
- B (1)
- C (2) Q, T
- D (1)
- E (1) P
- F (1) X

Choice 4

5. Initial information:

- A (2)

- B (1)
- C (2)
- D (1)
- E (1)
- F (1)

Also, P, Q, R, S, T, U, W, X (Darkened shows female). From clue 2, Room C (2 people) and Room F (1 person) should be women's rooms as men cannot be placed there. From clue 3-P must be in E, S must be in A (where U and W cannot be). Thus S must be sharing his room with R. Also U and W must be in some random order in rooms B or D. Also, X must be in Room F as she is a female and wants a single room.

Collating all this we get:

- A (2) S, R
- B (1)
- C (2) Q, T
- D (1)
- E (1) P
- F (1) X

Choice 2

6.

	Tennis	Badminton	Table tennis
A	×	.	.
B	×	.	.
C	×	.	.
D	.	×	.
E	.	×	.
F	.	×	.
G	.	.	×
H	.	.	×
I	.	.	×
J	×	×	
Total	N	N - 1	

Choice 2

7.

	Tennis	Badminton	Table tennis
A	×	.	.
B	×	.	.
C	×	.	.
D	.	×	.
E	.	×	.
F	.	×	.
G	.	.	×
H	.	.	×
I	.	.	×
J	×	×	
Total	N	N - 1	

Choice 4

8.

	Tennis	Badminton	Table tennis
A	×	.	.
B	×	.	.
C	×	.	.
D	.	×	.
E	.	×	.
F	.	×	.
G	.	.	×
H	.	.	×
I	.	.	×
J	×	×	
Total	N	N - 1	

Choice 3

9. We have been given that Amir and Gaurav sit on benches Mahogany and Maple. Now since Fahim is a boy and sits with only Bikram, this implies that Bikram is a female. (This conclusion was made on the grounds that there is at least one girl on each bench). Fahim and Bikram sit on the Oak bench.

On the basis of the above information we get:

Mahogany: Amir	
Oak	: Fahim(boy) Bikram(female)
Maple	: Gaurav

Now since Charlie is a girl student and she does not sit with Amir, Emraan and David, it implies that Charlie sits on Maple bench because on Oak bench only two persons can be seated. By elimination of clues, Emraan and David sit on Mahogany bench. Now see the clue, "Amir sits with his friend" this means that Amir is a male. Again Emraan is the brother of Charlie implies that Emraan is a male. By elimination David is a female. But sex of Gaurav is still unknown.

Thus the information obtained above can be summarized as follows:

Mahogany: Amir(boy)	David(female)
Emraan(boy)	
Oak	: Fahim(boy) Bikram(female)
Maple	: Gaurav Charlie(female)

Choice 4

10. We have been given that Amir and Gaurav sit on benches Mahogany and Maple. Now since Fahim is a boy and sits with only Bikram, this implies that Bikram is a female. (This conclusion was made on the

grounds that there is at least one girl on each bench).Fahim and Bikram sit on the Oak bench.

On the basis of the above information we get:

Mahogany: Amir		
Oak	: Fahim(boy)	Bikram(female)
Maple	:	Gaurav

Now since Charlie is a girl student and she does not sit with Amir, Emraan and David, it implies that Charlie sits on Maple bench because on Oak bench only two persons can be seated. By elimination of clues, Emraan and David sit on Mahogany bench. Now see the clue, “Amir sits with his friend” this means that Amir is a male. Again Emraan is the brother of Charlie implies that Emraan is a male.By elimination David is a female. But sex of Gaurav is still unknown.

Thus the information obtained above can be summarized as follows:

Mahogany: Amir(boy)		David(female)
Emraan(boy)		
Oak	: Fahim(boy)	Bikram(female)
Maple	: Gaurav	Charlie(female)

Choice 3

11. From the first clue we know that:

		III
		II
		I

Six people M, N, P, Q, S & T

3 departments for females: Accounts, Admin, and Personnel.

3 floors (2 people each)

Using the direct information in clue 2 we get:

M	Q -	III
		II
S	P +	I

Note: (- Denotes Female and + Denotes Male)

Since P is a male (denoted by ‘ + ’ in the figure) S must be a female (Since no two females work in the same department or on the same floor).

If S is a female, M must be male (since they are in the same department).

Also, since N and S are in the same department, N is also a male. This gives us the final figures us:

M +	Q -	III
N +	T -	II
S -	P +	I

Also, S, M and N work in either Accounts or Administration. Q – Administration.

Choice 1

12. From the first clue we know that:

Six people M, N, P, Q, S & T

3 departments for females: Accounts, Admin, and Personnel.

3 floors (2 people each)

		III
		II
		I

Using the direct information in clue 2 we get:

M	Q -	III
		II
S	P +	I

Note: (- Denotes Female and + Denotes Male)

Since P is a male (denoted by ‘ + ’ in the figure) S must be a female (Since no two females work in the same department or on the same floor).

If S is a female, M must be male (since they are in the same department).

Also, since N and S are in the same department, N is also a male. This

gives us the final figures us:

M +	Q -	III
N +	T -	II
S -	P +	I

Also, S, M and N work in either Accounts or Administration. Q – Administration. Choice 4

13. From the first clue we know that:

Six people M, N, P, Q, S & T

3 departments for females: Accounts, Admin, and Personnel.

3 floors (2 people each)

		III
		II
		I

Using the direct information in clue 2 we get:

M	Q -	III
		II
S	P +	I

Note: (- Denotes Female and + Denotes Male)

Since P is a male (denoted by ' + ' in the figure) S must be a female (Since no two females work in the same department or on the same floor).

If S is a female, M must be male (since they are in the same department).

Also, since N and S are in the same department, N is also a male. This gives us the final figures us:

M +	Q -	III
N +	T -	II
S -	P +	I

Also, S, M and N work in either Accounts or Administration. Q – Administration. Choice 4

14.

	Tennis	Badminton	Table tennis
A	×	.	.
B	×	.	.
C	×	.	.
D	.	×	.
E	.	×	.
F	.	×	.
G	.	.	×
H	.	.	×
I	.	.	×
J	×	×	
Total	N	N - 1	

Choice 3

15.

	Tennis	Badminton	Table tennis
A	×	.	.
B	×	.	.
C	×	.	.
D	.	×	.
E	.	×	.
F	.	×	.
G	.	.	×
H	.	.	×
I	.	.	×
J	×	×	
Total	N	N - 1	

Choice 4

16.

	Tennis	Badminton	Table tennis
A	×	.	.
B	×	.	.
C	×	.	.
D	.	×	.
E	.	×	.
F	.	×	.
G	.	.	×
H	.	.	×
I	.	.	×
J	×	×	
Total	N	N - 1	

Choice 2

17.

	Tennis	Badminton	Table tennis
A	×	.	.
B	×	.	.
C	×	.	.
D	.	×	.
E	.	×	.
F	.	×	.
G	.	.	×
H	.	.	×
I	.	.	×
J	×	×	
Total	N	N - 1	

Choice 3

18.

19.If there are at least two passengers in each vehicle and one of them is a male then, in the group there are at least three males. Among them Niharika is a female and she is a doctor. Geetika and Aishwarya are also females. From the second clue we get Aparajita is a teacher. Deep is a male and he is an engineer. He travels with only Aparajita, which means Aparajita is a female. And both of them travel in maruthi. From the third clue Shwetabh is a male and he is a doctor. From fifth clue Geetika is not an engineer and she cannot be a doctor because there can be only two doctors(Niharika and Shwetabh). Hence, Geetika is a teacher and she travels in santro. So there are four females Niharika, Geetika, Aishwarya and Aparajita. Hence the remaining persons will be male because in each vehicle there has to be at least one male. Hence Akansha is a male and Shwetabh and Akansha will occupy seats in two different cars(santro and octavia) because in maruthi, Deep travels only with Aparajita. Again Niharika can travel neither with shwetabh nor with Geetika and Aishwarya. Thus we have the final arrangements as follows:

Person	Profession	Vehicle	Sex
Deep	Engineer	Maruthi	M
Aparajita	Teacher	Maruthi	F
Geetika	Teacher	Santro	F
Shwetabh	Doctor	Santro	M
Aishwarya	Engineer	Santro	F
Akansha	Teacher	Octavia	M
Niharika	Doctor	Octavia	F

Choice 2

20. If there are at least two passengers in each vehicle and one of them is a male then, in the group there are at least three males. Among them Niharika is a female and she is a doctor. Geetika and Aishwarya are also

females. From the second clue we get Aparajita is a teacher. Deep is a male and he is an engineer. He travels with only Aparajita, which means Aparajita is a female. And both of them travel in maruthi. From the third clue Shwetabh is a male and he is a doctor. From fifth clue Geetika is not an engineer and she cannot be a doctor because there can be only two doctors(Niharika and Shwetabh). Hence, Geetika is a teacher and she travels in santro. So there are four females Niharika, Geetika, Aishwarya and Aparajita. Hence the remaining persons will be male because in each vehicle there has to be at least one male. Hence Akansha is a male and Shwetabh and Akansha will occupy seats in two different cars(santro and octavia) because in maruthi, Deep travels only with Aparajita. Again Niharika can travel neither with shwetabh nor with Geetika and Aishwarya. Thus we have the final arrangements as follows:

Person	Profession	Vehicle	Sex
Deep	Engineer	Maruthi	M
Aparajita	Teacher	Maruthi	F
Geetika	Teacher	Santro	F
Shwetabh	Doctor	Santro	M
Aishwarya	Engineer	Santro	F
Akansha	Teacher	Octavia	M
Niharika	Doctor	Octavia	F

Choice 1

PUZZLE TEST

- 1.
1. Choice 1
- 2.
3. Choice 2
- 4.

- 2.
- 1.
- 2.
- 3.
- 4.
- 3.
1. Choice 1
2. Choice 1
3. Choice 2
4. Choice 2
- 4.
1. Choice 4
2. Choice 4
3. Choice 4
4. Choice 4
- 5.
1. Choice 4
2. Choice 4
3. Choice 4
4. Choice 2

DATA SUFFICIENCY

1. Statement I alone is sufficient to answer the question, and II alone is sufficient to answer the question. Note here that we do not need uniqueness of answer as the data set is changing from Data Set 1 to Data Set 2. Hence, we would mark Statement I as the answer.

Choice 1

2. Statement II alone is sufficient to answer the question since it will give us the ratio of 84/100. However, I alone is not sufficient to answer the question since it does not give an answer to the question asked.
Hence we mark Choice 3 as the answer. Choice 3
3. We can answer the question using both statements since from first we can find the diagonal of square B and from the second we can find the diagonal of square A and consequently the side of Square A. Hence we mark Choice 2 as the correct Answer. Choice 2
4. II alone is sufficient to answer the question but I alone is not. Thus we mark Choice 3 as answer. Choice 3
5. Both Statements will give an answer to the question. Choice 2
6. From Statement I we cannot be sure of whether we would get an even division when m is divided by 7. From the Second statement we get that if $5m$ gives us an even quotient when divided by 14, then $5m$ must be even and divisible by 7 and consequently the answer to the question would be yes. Choice 3
7. Can be solved using both the statements together. Choice 2
8. I alone sufficient to answer the question as well as, Statement II alone is also sufficient to answer the question. So mark 1 as the correct Choice. Choice 1
9. I alone sufficient to answer the question but II alone is not sufficient to answer the question. So mark 3 as the correct Choice. Choice 3
10. Obviously, can be solved using both the statements together. Choice 2
11. Cannot be solved even if we use both the statements since there are multiple possibilities for the values of a, b, c . Hence, we mark Choice 4 as the answer. Choice 4
12. I alone is sufficient to answer the question as from I we get that $x+5=18$, hence, $x=13$ (unique Answer). II alone is not sufficient to answer the question as there are three possible values of x , such that $x+4$ and $x+6$ are both prime (viz : $x=1, x=7, x=13$) Choice 3
13. Both pieces of information do not give us any information about the number of fishes in the aquariums. Hence Choice 4 is the answer. Choice 4
14. I alone sufficient to answer the question as well as, Statement II alone is also sufficient to answer the question. So mark 1 as the correct Choice. Choice 1
15. II alone question as we get that area of the walls must be $30 * 40 * 2 + 20 * 30 * 2 = 3600$. Hence we are sufficient to answer the would get the floor area as $20 * 40 = 800$ square feet (a unique answer). Choice 3
16. II alone is sufficient to answer the question asked since all we need is a ratio between a and b to get the value of x . Hence, we mark Choice 2 as the correct answer. Choice 3
17. Can be solved using both the statements together. Choice 2

18. Statement II alone is sufficient to answer the question as $b^2a=80$ then $b\sqrt{a}=\sqrt{80}$. Choice 3
19. Can be solved using both the statements together. We will get that b and c are equal. Choice 2
20. Data Insufficient, hence Choice 4 as the correct answer. Choice 4
21. I alone sufficient to answer the question but II alone is not sufficient to answer the question. So mark 3 as the correct Choice Choice 3
22. I alone sufficient to answer the question as well as, Statement II alone is also sufficient to answer the question. So mark 1 as the correct Choice. Choice 1
23. Data Insufficient since we don't know the dimensions of the room (length and breadth). Choice 4
24. II alone is sufficient to answer the question as we know that one of the three prime numbers must be 2(Since the sum of 3 odd numbers can never be even). Choice 4
25. Data Insufficient since we don't know the rupee discount of the Shirt. Choice 4
26. I alone sufficient to answer the question as well as, Statement II alone is also sufficient to answer the question. If we know three sides of any triangle we can construct the same and can hence find the length of the greatest median too. Hence mark 1 as the correct Choice. Choice 1

27. Can be solved using both the statements together. Hence we mark Choice 2 as answer. Choice 2
28. II alone is sufficient to answer the question while Statement I alone is not sufficient as it would not give a unique Answer. Hence Choice 3 as the correct Answer. Choice 3
29. Choice 1 is correct since I alone is sufficient to answer the question as well as II alone is sufficient to answer the question. From I we get that since the number x5 has only 6 distinct natural factors, x must be prime. From II we get that $x=7$ or $x=3$. In either case the value of x is prime. Hence we are getting a unique answer to the question asked. Choice 1
30. The question cannot be answered using Statement I alone since we do not know whether the division is internal or external. Hence, since both statements are required to answer the question. Since both the statements are required to answer the question. Choice 2

CONDITIONAL SYLLOGISMS

1. Choice 3
2. Choice 2
3. Choice 4
4. Choice 3
5. Choice 2
6. Choice 4
7. Choice 2
8. Choice 3
9. Choice 2
10. Choice 3

11. Choice 3
12. Choice 3
13. Choice 2
14. Choice 3
15. Choice 2
16. Choice 4
17. Choice 1
18. Choice 1
19. Choice 2
20. Choice 3

$$[(733/z)-(645-z)]/(645/z)*100=88/645*100=13.6\%$$

Choice 5

3. The average wheat exported is $(207 + 189 + 209 + 215 + 220)/5 = 208$ million kg
The average wheat production is $(421 + 561 + 581 + 645 + 660)/5 = 574.8$ million kg. Hence the required ratio is $220/574.8 = 0.39$
Choice 3
4. Average of per capita availability = $(487 + 464 + 510 + 544 + 566)/5 = 514.2$ g
Choice 1

DATA INTERPRETATION ON TABLE CHARTS

1. Choice 3
2. Choice 1
3. Choice 3
4. Choice 2
5. Choice 4
6. Choice 4
7. Choice 1
8. Choice 3

5. The number of T1 in SS1 is 50. A combination of 50 T1 can be formed by using the following combination of S's:-b. S1, S2 and S3c. S1 is used twice
The number of T2 in SS1 is 45. A combination of 45 T2 can be formed by using the following combinations of S:-
(a)S1, S2 and S4
Combination (a) is common for both number of T1 and T2. Hence S1, S2 and S4 are used in SS1
Similarly, in SS2 we have the following combination: S2 once and S4 twice.
Hence types of S used are 3. Choice 3

DATA INTERPRETATION ON BAR CHARTS

1. For the period of 2003-2004 quantity of wheat (in million kg) which was not exported was $645 - 215 = 430$ million kg.
Hence total production = $430 / 0.544 = 790$ million Choice 3
2. Say the area under productivity in the year 2003-2004 be 'z' hectare
Productivity in 2003-2004 = $645/z$
Productivity in 2004-2005 = $660 / 0.9z = 733/z$ (approx)
Hence rate of increase in Productivity in 2004-2005 =

6. Number of T3 and T4 in SS3 is known. Calculating on similar lines as explained in the last question.
We have the following combinations of S's: S3 and S4. Choice 2
7. We know the number of T1 and T5 used in SS4. Again calculating along similar lines, we get the SS4 has the following combination of S's : S1, S3, S4 and S5. Hence number of T2 on S4 is = $20 + 8 + 15 + 17 = 60$ from the previous results. T2 on SS3 = 23. Hence 83. Choice 5

8. As the number of T4's is 63 and the number of T5's is less than 80, the following combinations can be used;

(a) SS1 and SS3 (b) SS3 and SS4 (c) SS3 twice (d) SS2 twice

For combination (a) we have the following combinations of S's: S1, S3, S4, and S5

For combination (b) we have the following combinations of S's: S1, S3, S4, and S5

For combination (c) and (d) we have the following combinations of S's: S2, S3, and S4

Choice 3

DATA INTERPRETATION ON PIE CHARTS

1. Choice 4
2. Choice 1
3. Choice 2
4. Choice 1
5. Choice 3

6. The price per unit of Brand A: $(0.25 \times 2250 \times 10^7) / (0.16 \times 13500 \times 10^6) = 562.5 / 216 = 2.6$

Price per unit of Brand B = $(0.13 \times 2250) / (0.14 \times 1350) = 1.55$. Similarly price per units of Brand C, D, E and F are Rs. 1.23, Rs. 2.22, Rs. 2.5 and Rs. 0.83 respectively. Hence brand A is the costliest which is Rs. 2.6 per bottle.

Choice 1

7. The cheapest brand cost Rs. 0.83 and the costliest brand's price is Rs. 2.6. Hence the required price ratio is 4:13.

Choice 2

8. The profit for one bottle of brand C is $1.23 - 0.93 = 0.3$. Hence the total profit of brand

$$C = 0.3 \times 0.27 \times 13500 \times 10^6 = 109.35 \text{ crore.}$$

Choice 4

9. Percentage share of brand A in value sales = $25 + (2 / 5 \times 12) = 30\%$

Choice 3

DATA INTERPRETATION LINE CHARTS

1. Choice B

2. The highest value as seen from the table above (for the years provided in the Choice) is for 2008 (2.49/150).

Choice E

3. Choice D

The Choices for this Question were incorrect as they cannot be in Rs. Crores. From the numbers in the charts it is clear that the sales turnover of the company barely reaches 2 crores in 2009 and is lower than that even earlier. On the other hand CSR spending is in the range of 1-3 lacs right through. Hence, the question can be seen as incorrect. Choice D can be marked if we assume that the error is in terms of writing lacs as crores.

4. It is clear that the CSR spending has never declined during the entire period.

Choice C

5. In 1996, the number of cinema viewers (in mil-lions) = 555

The number of cinema shows (in ten thousands) = 95

6. So the required Average = $555/95 = 5.84 \approx 5.8$

Choice C

7. Self Explanatory.

Choice C

8. Increase in the seven years = $590 - 300 = 290$ million

As a percentage = $290/300 \times 100 = 96.66 \approx 97$ nearly.

Choice B

9. The year having maximum shows is 1996.

The number of theatres = 620

Number of shows = 950 thousand

SO Average = $950/620$ thousand

So we get =1.5 thousand

Choice A

10. The Maximum increase is in 1992 as compared to 1991

11. The steep rise in the graph shows the increase.

Choice A

12. In seven years, 1992 and 1994 have 850000 shows each.
Also in 1993 and 1995, there are 900000 shows each.
Hence the answer is 'twice'.

Choice D

DATA INTERPETATION ON MULTIPLE CHARTS

1. The company's combined turnover = $120 + 126 + 139 + 151 + 163 = 699$.

D's share = $0.26 * 120 + 0.34 * 126 + 0.30 * 139 + 0.26 * 151 + 0.24 * 163 = 194.12$

Hence required % = $(194.12/699) * 100 = 27.8\%$

Choice 3

2. Highest growth rate is between 2004-2005 and it is
 $(139 - 126) / 126 * 100 = 10.31\%$

Compounded Average annual growth rate =
 $[(163-120/120)^{1/4} - 1] * 100 = 7.96\%$

The difference is 2.35%

Choice 1

3. In 2006, (A+C)'s turnover = $(26 + 22) \% \text{ of } 151 = \text{Rs. } 72.48 \text{ cr.}$
In 2002, (B+D)'s turnover = $(18 + 24) \% \text{ of } 163 = \text{Rs. } 68.46 \text{ cr.}$
Hence approx difference is Rs. 4 cr.

Choice 5

4. (a) is true as the average turnover is $699/5 = 139.8 \text{ cr.}$
(b) is true because B's turnover has continuously increased & decreased
(b) is true as E has recorded the highest jump in between 2006-2007.

Choice 5

5. From the given data about four matches, B and C have each lost one match and B and D have each won one match. This implies that D won against B and C lost to B. A drew both the matches against C and D. This implies that the remaining two matches in the first round are D against C and

A against B. Hence (b) is correct Choice

Choice 2

6. From the given statement (5) in the problem statement and the given information A has 7 points in second round. This implies that they have won two matches and drew one match. From Statement (4) A drew a match against D and won against B and C. This implies that from statement (1) D lost to C and B. Hence C won only one match in the second round as they had drawn against B.

Choice 1

7. C has goal comparison as 0-1 (GF-GA) in the two matches of round one and 1-1 (GF-GA) in the second round. Therefore their goal comparisons for all matches are 1-2 (GF-GA) which is the same as the final goal comparison. This implies that they have not scored any goal in the match which they drew against team D. Therefore the score of the match is 0-0.

Choice 1

In the first round, C has drew two matches and lost one and in the second round they have won one match, drew one match and lost one match making a total point tally of 6. Team D has won one match in the first round and drew two, in the second round they drew one match but lost two taking their team score to 6. On the other hand, B has 8 points with two wins and two draws but C has less GA as compared to D. Hence C is ranked 3 rd.

Choice 3