Key with Explanation

1. A

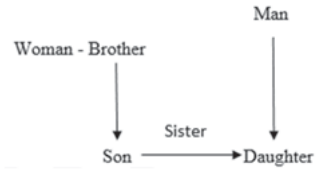
Initial period is of non-zero but constant population. Thus, option (a) and (b) may be ruled out. Second period is of exponential growth as the population is multiplying fast.

Third period has death rate equal to the birth rate, i.e. zero growth rate. It implies that the population is constant. Thus, option (d) may be ruled out.

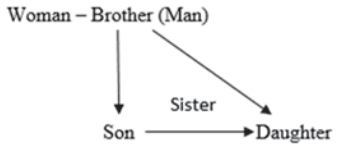
The last period has death rate higher than the birth rate. Thus, population will decline. Thus, option (c) is correct

2. C

We may represent the family members in the form of a family tree as follows:

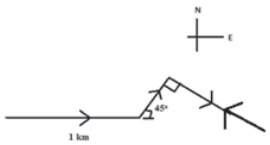


We can infer that in fact the man being referred to by the woman is her brother only. We can redraw the family tree as follows:



3. B

We may represent the movement of Rohan with the use of a diagram as follows:



It's evident that before turning back Rohan was moving in the South-East direction. However, after turning back he must be moving in the North-West direction.

4. A

Let's assume money received by A and B is 5x and 3x respectively and the money received by B and C is 2y and 3y respectively.

As the money received by B must be the same in both the cases,

So 3x = 2y

or y = 3x/2.....(i)

Now, total amount of money = Rs. 800

or 5x + 3x + 3y = 800

Using equation (i) we get,

5x + 3x + 9x/2 = 800

or 12.5x = 800

Thus, x = 64

The money received by A = 5x = Rs. 320.

Hence correct option is (a).

5. A

Here,

Let cost price of the bicycle is Rs. 100. Then selling price of the bicycle 110. Now, new cost price = 90.

And new selling price = 110 + 60

So, $90\times\frac{125}{100} = 110 + 60$

Or, 112.5 = 110 + 60

Or, 112.5 - 110 = 60

Or, 2.5 = 60

$$\begin{array}{ccc} 2.5 & = & 60 \\ \downarrow & & \downarrow \\ 100 & & 2400 \end{array}$$

$40\times$ $40\times$

:. Cost price of the bicycle = Rs. 2,400

6. C

Passage explains that -Mythology should be read as mythology, and therefore with a rich, and separate identity. Ancient myth-makers, among the Egyptians, Greeks, Indians, Chinese and others, saw myth as involving gods and the supernatural, so it is perhaps sensible not to confuse it with history or science.? This disproves options (a) and (b).

It also opines that ?a lot of magic in the fabric of mythology, woven into legendary tales with supernatural objects and supernatural powers. This shows option (d) is also wrong.

Mythology is magic realism in the sense that there is some realism and a lot of magic in the fabric of mythology.? This part in the passage proves that option (c) is the right answer.

7. C

It is stated in the passage And when the myths enter into people's beliefs, mythology gets

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entangled with religion.? This explained option (c) is the right option. Other three options are not mentioned in the passage at all.

8. A

It's written in the passage that ?Regulations intended to manage densities and discourage migration both limit the supply of land and require many households to consume more land than they would choose. This drives urban sprawl and pushes up the price of land and the cost of service delivery for all.? It explains why option (a) is the answer. There is no mention of options (b) and (c) in the passage. Regulations intended to discourage migration is the reason for limiting supply of land, not urban sprawl. There is no mention of regulations encouraging migration.

9. A

Passage says ?they are bereft of normal property rights protections and their investments are thus far riskier than those of the well off.? So option (a) is the right option.

There is no mention of options (b) and (c) in the passage.

Though informal settlement leads to their vulnerability, lack of awareness is the main reason for the risk. So option (d) is also wrong.

10. A

Passage clearly mentions that ?The poor and lower income groups must be brought into the mainstream in cities.? So option (a) is the right answer.

11. D

There is nothing mentioned about manufacturing of aircraft. So option (a) is wrong. Working whole night was not the target set by the teacher. Thus, option (b) is also incorrect.

And there is no mention that the assigned task would take one month. One month's time was asked by the author from Prof. Srinivasan. So option (c) is also wrong.

Only (d) can be inferred from the passage. Prof. Srinivasan asked the writer to complete drawing of the design in three days time for which author was asking one month.

12. C

Teacher didn't want to withdraw the scholarship if the student completed the task. Also, if teacher wanted to withdraw the scholarship then next morning he would not have come to the author's room.

He was not testing capability of the student too.

Even option of eliminating the student from the project was not the intention as it is not mentioned in the passage. Here a similar explanation as option (a) will eliminate this option. So options (a), (b), and (d) are wrong.

Only (c) can be inferred from the passage that teacher was checking the seriousness of the student.

13. B

The scholarship was my lifeline and I would be quite helpless if it was withdrawn.? This shows that the student was on a scholarship and his finances were depended on that. So option (b) is the right answer.

Protagonist was in MIT not IIT. So option (a) is wrong.

There is no mention of protagonist being interested in sports and no mention of him being a good team player. So options (c) and (d) are also wrong.

14. C

The average expenditure for first 10 days = Rs. 800.

For next 10 days it decreases by 30%, so the average expenditure for next 10 days = 800 X 70/100 = Rs. 560

And for last 10 days it further decreases by another 15%, so the average expenditure for the last 10 days = 560 x 85/100 = Rs. 476

Here, the number of days whose average is taken is equal to 10 days in all the three cases. Thus, we can simply take the average of these three averages to find the final average for the whole month.

So, average expenditure for the whole month = (800 + 560 + 476)/3 = 1836/3 = Rs. 612

15. B

Method I:

Let us assume the cost price of the goods to be Rs. x Then marked price= x + 25% of x = Rs. 1.25x

Let us assume the discount over marked price to be y%. As after discount merchant makes no loss and no profit therefore, we get:

S.P. = C.P.

or M.P. - Discount = C.P.

or 1.25x - y% of 1.25x= x

or 1.25 - y% of 1.25=1

or y% of 1.25=0.25

or y = (0.25/1.25) × 100 = 20%.

16. D

Council of Ministers is a subset of the superset Executive.

Similarly, Prime Minister is also a part of the Council of Ministers and the executive. Thus Prime Minister is a subset of the set Council of Ministers.

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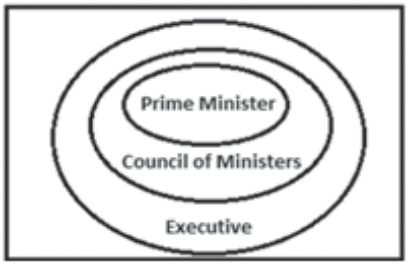
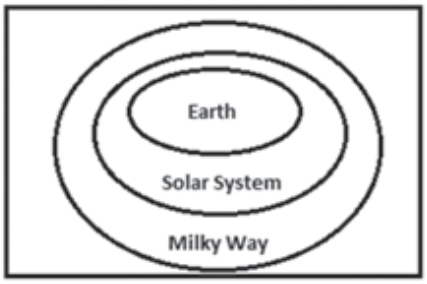
Thus, they may be represented as shown below:



17. C

Earth is inside the solar system, which in turn is inside the Milky Way galaxy. Hence, we may represent them as follows:



18. B

A works daily and B and C work only on alternate days, starting from B. It means that on the first day A and B will work. The second day A and C will work. This trend will continue till the whole work is not completed.

Let us assume that total work is of 60 units (LCM of 12, 15 and 20 days) and the units of work done by A, B and C per day is a, b and c respectively.

Work done per day = Total work/Number of days needed to complete the whole work Thus, a= 60 units/12 days = 5 units/day

b = 60 units/15 days = 4 units/day c = 60 units/ 20 days = 3 units/day

We can trace the amount of work done till the end of any day by using the table represented below:

Days	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
Amount of work done on respective days	5+4	5+3	5+4	5+3	5+4	5+3	5+4
Total work done till the end of respective days	9	17	26	34	43	51	60

Thus, the work (60 units) will be completed by the end of the 7th day.

19. A

20. D

A person can go from Delhi to Meerut through any of the 30 routes connecting the two cities. Hence, there are 30 ways to go from Delhi to Meerut.

Since he cannot come back through the same route as travelled by him earlier, he has to opt for one of the remaining 29 routes. Therefore he can return to Delhi in 29 ways.

Thus, the total number of ways possible = 30 x 29 = 870 ways.

21. C

The information given in the question may be represented in the form of a table as follows:

Professions ->	Professors	Engineers	Chartered Accountants
Males	A, B	P, Q, U	H, I, M, N
Females	C, D, E	R, S, T	J, K, L

Every team given under the options consists of 2 engineers, 2 chartered accountants and 3 professors. Team mentioned under option (a) has females only and it satisfies all the given conditions. Similarly, teams mentioned under options (b) and (d) have only one male professor each, i.e. A and B respectively and they satisfy all the given conditions.

In option (c) 2 female professors (C and D) and one male professor (B) are included. Also two female chartered accountants (J and L) are there in the group. These are satisfying the given conditions, including the 2nd condition.

But inclusion of one male engineer (U) in the group violated the 1st condition. Hence, the team mentioned under option (c) can't be made.

22. D

Every team given under the options consists of 3 engineers, 3 chartered accountants and 2 professors. However, the team mentioned under option (a) is wrong because as per the 1st condition whenever there is a female professor in the team there will be no male engineer. But in this team two female professors (C and D) are there and there is also a male engineer, i.e. P.

The team mentioned under option (b) is wrong because according the 3rd condition, more than two male engineers are not allowed in a team. But there are 3 male engineers (P, Q and U) in the team.

According to the 2nd condition, whenever there

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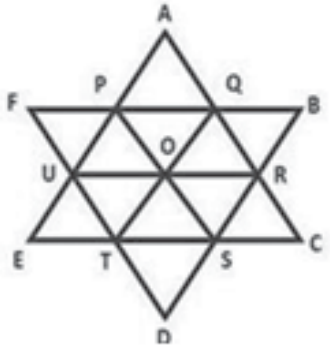
is a male chartered accountant in the team, there will be no female professor. However, in the team mentioned under option (c), there is one male chartered accountant (M), but still there are two female professors, i.e. C and E.

Team under option (d) satisfies all given conditions. It consists of 2 male professors, 3 male chartered accountants, along with 3 engineers (2 male and 1 female).

23. C

Let us label the various vertices in the question figure for referencing purposes.



Triangles using A, B, C, D, E and F vertices are as follows:

- APQ, BQR, CRS, DST, ETU and FUP, i.e. a total of 6 triangles
- AUR, BPS, CQT, DRU, ESP and FTQ, i.e. a total of 6 triangles
- ACE and BDF, i.e. a total of 2 triangles

So, total number of such triangles = 6 + 6 + 2 = 14

Triangles that may be formed without using the above 6 vertices are those confined within the hexagon PQRSTU. There are 6 such triangles centered at O.

Thus, total number of triangles in the given figure = 14 + 6 = 20

24. B

The sentence ?The Lima climate summit was expected to come out with the basic architecture for a globally binding agreement to tackle climate change to be arrived at COP 21 in December 2015 in Paris? shows that option (b) is the right answer.

It only had to come out with a basic architecture; not to limit carbon emission, not to come out with a legally binding agreement, or to replace Kyoto protocol. Thus, other options (a), (c) and (d) are wrong.

25. C

The passage very clearly mentions that Lima summit could not come out with a satisfactory legal structure to achieve its goal (If there was any misplaced hope at all that Lima would come up with a satisfactory legal structure to achieve this goal, it was belied). It didn't come up with any treaty to replace Kyoto. Thus, options (a) wrong and option (c) is correct.

It also did not get approval to Paris accord. There is nothing mentioned in the passage to suggest that a meeting is scheduled later this year. So options (b) and (d) are also wrong.

26. C

Author only discusses about Lima Summit and the legally binding agreement which is the pipeline. He does not compare or contrast any treaties/ agreements. This makes option (a) incorrect.

He also does not prove that climate change discourses are futile. Thus option (b) is also incorrect.

He only discusses how Lima agreement failed to make a satisfactory legal structure in ?If there was any misplaced hope at all that Lima would come up with a satisfactory legal structure to achieve this goal, it was belied. According to the mandate of the Ad Hoc Working Group on the Durban Platform for Enhanced Action (ADP), which is entrusted with the task of arriving at the new agreement, the Paris Accord will enter into force in 2020.? So option (c) is the right answer.

There is nothing mentioned about developed countries being the bottleneck. Thus, option (d) is also incorrect.

27. C

Its noted in the passage that ?The largest share of historical and current global emissions of greenhouse gases [GHGs] has originated in developed countries, that per capita emissions in developing countries are still relatively low and that the share of global emissions originating in developing countries will grow to meet their social and development needs? (in the preamble).? Option (c) is the right answer as it can be seen in the extract given here.

Here the preamble nowhere supports that developed countries will further use their right to emit more carbon. Also, the preamble does not support increased per capita emissions in general of the global economy. Thus, statements 1 and 3 are incorrect.

28. B

(a) Incorrect. This statement is not made in the passage.

(b) Correct. Our ability to adapt is one affect the climate itself. The author says that, we have

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ability to adapt to the changing environment. This is a medicine. And compares Climate change to a disease. And says that medicine, or our ability to adapt is feeding the disease.

(c) Incorrect. Population growth, increases or decreases in air pollution, increased ability to purchase air conditioning or automobiles, and other social and economic changes are difficult to pin down decades into the future. It only says socio economic changes will make us able to adapt to the changes in climate.

(d) Incorrect. This statement is neither made in the passage nor can it be inferred.

29. C

Statement 1 is incorrect. Passage says, This is why IPCC climate scientists for use in projecting future changes in the climate." There is nothing mentioned about the difficulty of the task.

Statement 2 is correct. To quote the passage, but the changes we've observed in the last several decades are best explained as a combination of natural and human-made causes."

Statement 3 is also correct. Again to quote the passage, Other changes will be less familiar, and there could be surprises along the way."

Thus, correct answer is option (c) that is 1 and 3 are correct.

30. C

Statement (1) is wrong as the passage doesn't say that the mountain valleys in the Himalayas act as channels through out. Statement goes beyond the scope of the passage.

Statement (2) is also wrong as biomass burning happens along southern Himalayas and the indo-gangetic plain. Statement goes beyond the scope of the passage.

Statement (3) is correct as indicated in the first para. According to the passage the amount of aerosol are peaked during pre-monsoon season.

31. B

(a) Incorrect. There is no mention of need of global effort to save Himalayas.

(b) Correct. The study is about pollution in the Himalayas and it is suggesting that the pollutants which occur in the Himalayas are due to biomass burning.

(c) Incorrect. Agricultural burning and forest fires along the southern Himalayan foothills and the Indo- Gangetic Plain reach a high during the pre-monsoon period. Also, this is not the central idea of the passage.

(d) Incorrect. Though the passage mentions about Himalayan topography helping pollutants, but it is not the principle idea the passage gives.

32. B

In a non- leap year the number of odd days = 1
And in a leap year the number of odd days = 2

26th January will fall on a Monday again when the sum of the number of odd days becomes a multiple of 7, i.e. 7, 14, 21 etc.

2015 is a non-leap year, while 2016 is a leap year. Again 2017, 2018 and 2019 are non-leap years. Thus, the sum of odd days till the end of 2019 = 1 + 2 + 1+ 1 + 1 = 6.

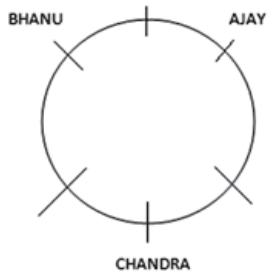
Now, 2020 is a leap year. Thus, the sum of odd days till the end of 2020 = 6 + 2 = 8 (or 1). If we keep proceeding in the same manner, we will see that:

The number of odd days till the end of 2025 = 8 + 1 + 1 + 1 + 2 + 1 = 14, i.e. a multiple of 7.

Thus, the calendar of the year 2015 repeats itself in the year 2026, i.e. after 11 years.

33 C

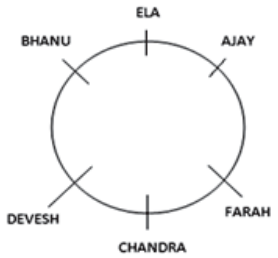
From the information given in the question, following diagram depicting their sitting arrangement can be obtained:



Now, as each of them was given a chest number equivalent to the number of letters in their name, Ajay, Bhanu, Chandra, Devesh, Ela and Farah must have been assigned the chest numbers of 4, 5, 7, 6, 3 and 5 respectively.

Further, we can see that: 4 + 6 = 10. Thus, Devesh must be sitting opposite to Ajay. Similarly, 7 + 3 = 10. Thus, Ela must be sitting opposite to Chandra.

And 5 + 5 = 10. Thus, Farah must be sitting opposite to Bhanu. The final sitting arrangement that emerges is as follows:



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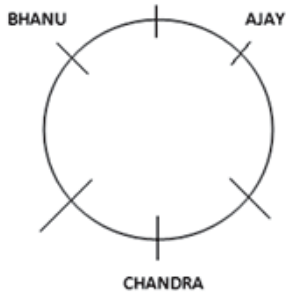
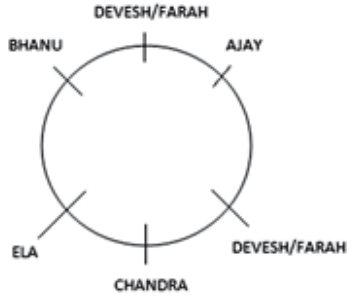
It's clear from the diagram given above, that Farah is sitting between Chandra and Ajay.

34. D

From the information given in the question, following diagram depicting their sitting arrangement can be obtained:



Further it is given that Ela never sits adjacent to Ajay. Therefore, she must be sitting on the left of Chandra. So, Devesh and Farah must be the neighbours of Ajay as shown below:



Therefore it is not possible to determine the exact sitting position of Devesh. Hence, (d) is the right option.

35. B

Let the speed of Satya be x km/hr Hence, Kavita's speed = (x+6) km/hr

Total distance covered by Kavita by the time she meets Satya = 100+25 = 125 km Total distance covered by Satyaby the time she meets Kavita= 100-25 = 75 km

As both had started simultaneously, the time elapsed by the time they meet again will be the same for both.

Thus, Distance covered by Kavita/Kavita's speed = Distance covered by Satya /Satya's speed or 125/(x+ 6) = 75/x

or 5/(x + 6) = 3/x

or 5x = 3x + 18

or x = 9 km/hr

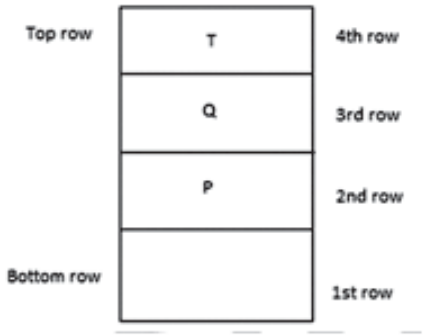
Therefore, Satya's speed = 9 km/hr.

Explanations for Questions 36 to 38:

Five friends sat in the four successive ascending rows, such that at least one of them sits in each row. Thus there are two friends in one row and one friend each in the rest of the three rows. Now, the stadium has ascending rows from bottom to top, numbered 1 to 4 in that order. So, let us call the bottom row as 1st row and the top row as the 4th row.

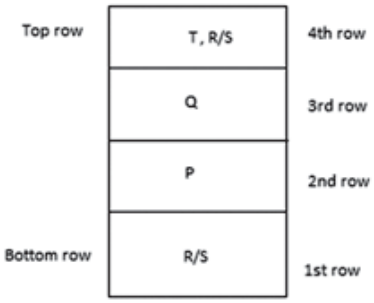
Now, P sat in one of the middle rows. Thus P is sitting in either 2nd or 3rd row.

Also, Q is above P but below T. For this condition to be true, P has to sit in the 2nd row, Q in the 3rd row and T in the 4th row. It may be represented as below:



We also know that either R or S sat in the top row. So, one of them sat in the top row and other one in one of the other rows. However, as at least one of them sits in each row, the bottom row cannot be vacant.

Hence, one among R and S sits in the top row and another in the bottom row. Also, it's clear that two friends must be sitting together in the top row. Hence, we get the final picture that emerges may be represented as shown below:



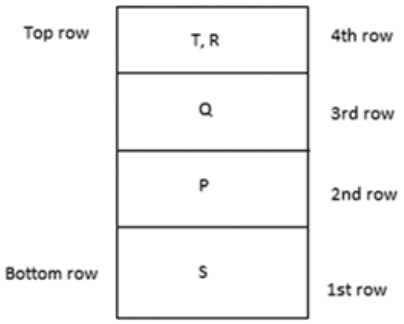
36. D

37. D

Either R or S may be sitting in the bottom row. Hence, it cannot be determined based on the given data.

38. C

Now, if P and R did not sit in successive rows, then we know that S sat in the bottom row and R sat in the top row. Thus only S sat below P and rest of the friends sat above P.

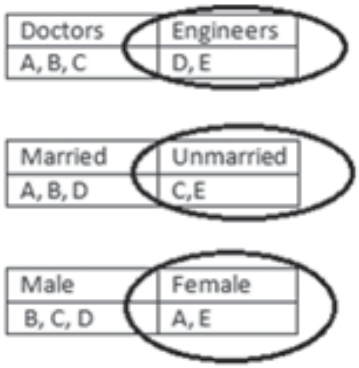


39. C

The information given in the question may be represented in the form of tables as follows:

Doctors	Engineers
A, B, C	D, E
Married	Unmarried
A, B, D	C, E
Male	Female
B, C, D	A, E

Unmarried female engineer will be the person common to the circled boxes as shown below:



Hence, E is the unmarried female engineer.

40. C

We can see the pattern in which the digits of the number in the circle are derived. Considering the first number, i.e. 133:

5 - 4 = 1

6 - 3 = 3

3 - 0 = 3

Similarly, considering the second number, i.e. 196: 6 - 5 = 1

13 - 4 = 9

14 - 8 = 6

Now considering the third case:

6 - 5 = 1

5 - 3 = 2

7 - 2 = 5

So, the missing number in the third case must be 125.

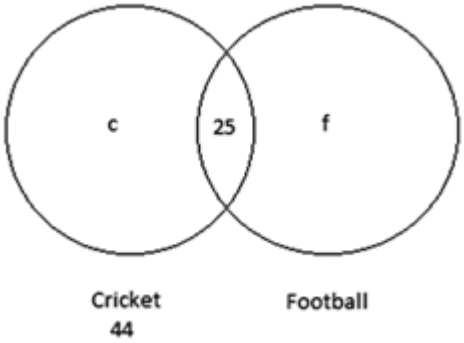
41. C

Length will be the maximum when the plots are of the maximum possible area. Maximum possible area of each such plot = H.C.F of (165,195,285) = 15 m^2 Now, Breadth of each plot = 3 metres

So, Length of each plot = 15/3= 5 metres

42. C

Let the number of students who play only cricket and those who play only football be c and f respectively.



The number of students who play only cricket, c = number of students who play cricket - number of students who play both football and cricket = 44 - 25 = 19

Similarly, the number of students who play only football, f = total number of students - number of students who play cricket = 70 - 44 = 26

Thus, the number of students who play only one of the two games = c + f = 19 + 26 = 45.

43. C

From the 2nd paragraph, There is a pattern where people are willing to give up better living conditions for better opportunities in the core areas. Some of them do not move to the new/relocated areas as their livelihood is deeply rooted in these slums (core) and the new areas have poor accessibility and livelihood options are limited. Thus, correct answer is C.

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44. D

From 2nd paragraph, The credit ecosystem that existed based on trust, social relationship and nurtured for generations is also lost. Author says that livelihood of people is deeply rooted in these slums. And one of the links is credit ecosystem. As option (d) says, after relocation by workers the credit facilities are lost and thus employment. Thus, skills become redundant.

Other options may be true in general but are nowhere stated in the passage.

45. C

From 1st paragraph, both statements are true. To quote the passage ?while loans (external assistance, ECBs, and trade credit) and banking capital including NRI deposits are debt liabilities.

46. A

Statement 1 is correct while 2nd is wrong. First statement is directly from the 1st passage.

From 1st paragraph, ?Rupee-denominated debt is preferred over foreign currency debt and medium- and long-term debt is preferred over short-term. Thus, second statement is incorrect.

47. A

Statement 1 is correct while 2 and 3 are incorrect from last paragraph.

Push and pull factors explain international capital flows. This is directly stated in the passage. Thus, statement 1 is correct.

Push factors are external to an economy and inter alia include parameters like low interest rates, abundant liquidity, slow growth, or lack of investment opportunities in advanced economies. Pull factors like robust economic performance and improved investment climate as a result of economic reforms in emerging economies are internal to an economy. Thus, push factors and pull factors are interchanged and thus, both statements are wrong.

48. D

Since the total number of male students or female students is not known, no inference can be drawn. Higher percentage of male students play football but in absolute numbers, it may be less than the number of female students playing football.

49. B

The graph represents the sports played by "all" the students. And since the sum of percentage of all the sports of female students equals to 100%, there is no possibility of any overlap. Thus there is no female student who plays more than one sport.

However, the sum of percentage of all the sports of male students equals to 115%. This can only happen when some male students play more than one sport.

50. A

As per the pie chart 10% of the male students play hockey. Now, this is equivalent to 30 students. Thus, total number of male students = (100/10) × 30 = 300

As 15% of the male students play cricket, the number of male students who play cricket = (15/100) × 300 = 45

51. C

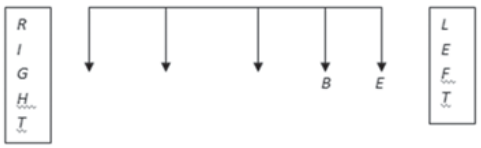
Since the total number of male students or female students is not known, no inference can be drawn regarding the number of male and female students playing either hockey or cricket. However, no female student plays volleyball. Therefore, definitely more male students play volleyball as compared to the female students.

52. A

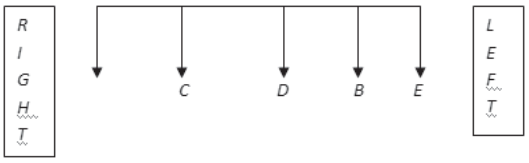
From the information given in the question, we know that:

is just to the right of E and E occupies the corner position.

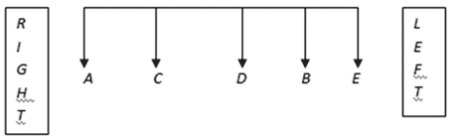
It means that E in at the rightmost corner. We may represent it in the form of a diagram, as follows:



Now, B is on the left of D, who in turn is on the left of C. Thus we get:



Now, we also know that A is on the right of C. So, from the above given facts we can draw the following diagram which fulfils all the conditions.



Hence, D is sitting at the centre and the correct option is (A).

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53. B

For such questions, one may first try to find out the faces which will be opposite to each other in the resultant cube formed. We may observe that in the resultant cube:

1. P will be opposite to S
2. T will be opposite to U
3. Q will be opposite to R

On the basis of the above observations, it can be concluded that the faces having P and S can't be adjacent to each other. Hence, the cube given under option (b) is not possible.

54. A

At 4:30 the hour hand is behind the minute hand by 45 degrees, i.e. angle between the two hands is 45 degrees.

As shown in the above figure, when the minute hand points in the north direction, the hour hand will be 45 degrees behind, i.e. it will point in the north-west direction.

55. D

Total number of apples = 12 x 12 + 2 x 12 =14 x 12 = 168 Ten apples were removed thereafter.

So, remaining apples = 168- 10=158

After transferring 158 apples equally in two baskets, we get: Number of apples in one basket = 158/2 = 79.

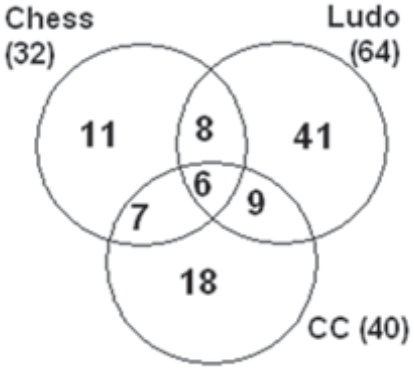
Hence, the correct option is (d)

56. C

If 6 Children play all 3 games and 14 play Chess and Ludo, it means 8 play only Chess and Ludo. Similarly we can find the number of children who play Ludo and Chinese checkers only, i.e. 9 and those who play Chess and Chinese checkers only, i.e. 7.

Now, number of children who play Chess only = 32 - (8 + 7 + 6) = 11

Similarly, number of children who play Ludo only and Chinese checkers only is 41 and 18 respectively. We may represent the scenario in the form of a Venn diagram as follows:



Therefore, the number of children who play Chess or Ludo but not Chinese Checkers = 11 + 41 + 8 = 60.

57. B

Let the ages of father and son 10 years ago be 3x and x years respectively.

Now, it's given that ten years from now, father's age will be twice that of his son. Thus, (3x + 10) + 10 = 2[(x + 10) + 10]

or 3x + 20 = 2x + 40 or x = 20.

Required ratio = (3x + 10):(x + 10) = 70 : 30 = 7:3.

58. D

Volume of the original cube = 43 = 64 cm3 Volume of 3 cm side cube = 33 = 27 cm3

Volume of two 2 cm side cube = 2 × 23 = 2 × 8 = 16 cm3 Amount of material left = 64 - (27+16) cm3 = 21 cm3 Now, volume of 1 cm side cube = 13 = 1 cm3

Hence, 21 cubes of side 1 cm were made. Total cubes formed = 1 + 2 + 21 = 24

59. B

To determine maximum success rate we can look for minimum failure rate. It will make calculations easier. Now for sections A, B, C and D the number of students that failed is (50 - 45), (45 - 42), (48 - 44) and (60 - 53), i.e. 5, 3, 4 and 7 respectively.

So for section A, B, C and D, failure rate is 5/50, 3/45, 4/48, 7/60 respectively. As B has the lowest failure rate, it must be having the maximum success rate.

60. C

Here we need the number of students with marks between 60 and 80 (excluding 60, but including 80). Number of such students in section A = 25 - 8 = 17

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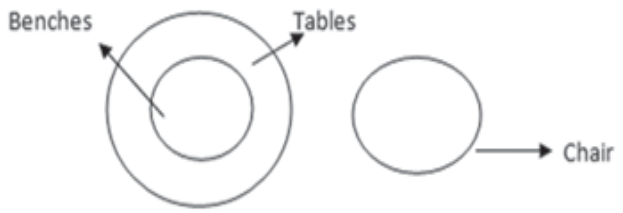
Number of such students in section B = 27 - 6 = 21 Number of such students in section C = 29 - 7 = 22 Number of such students in section D = 30 - 9 = 21

It's evident that section C has the most number of such students.

Explanations for Q 61 and 62:

61. C

According to the statements given in the question, we can draw the following Venn diagram:



From the above diagram we can see that only conclusion IV follows, i.e. No benches are chairs. Hence, the correct option is (c).

62. B

All the boxes contain books. Now, some of these boxes also have note-books and/or scribbling pads.

It means that some of these boxes contain both note-books and books, while some contain both books and scribbling pads. However, as per statement III, some ?other' boxes also have scribbling pads. Here, the emphasis is on the word ?other'. It means that scribbling pads are not present in the boxes in which note books are there. So no box may contain all the three: books, note books and scribbling pads.

From the above we can conclude that some boxes contain note-book and books. Therefore only conclusion III follows. Hence, the correct option is (b).

63. A

64. B

All the numbers in one group follow a similar relationship, i.e. sum of all the numbers on the periphery is divided by 9 and quotient (i.e. result of division) is written in the central square.

For the first figure: (45 + 26 + 7 + 3)/9 = 81/9 = 9

For the second figure: (16 + 95 + 11 + 13)/9 = 135/9 = 15 Thus, for the third figure: (45 + 87 + 31 + 17)/9 = 180/9 = 20

65: C

A and B together can complete a job in 18 days. So, in one day they will complete 1/18th part of the job. Similarly, it takes A 30 days to complete the same job while working alone. Hence, in one day it will complete 1/30th part of the job.

Hence, part of the job completed by B in one day = (1/18) - (1/30) = 1/45th So B will take 45 days to complete the job while working alone.

66. C

Assumption 1 is correct as the lines ?or utilize their powers of socially sensitive reasoning?, ?but a sense of justice is among the concerns that can move people and often do? and ?That space already exists? suggests that people do have social values and concerns which means people are socially sensitive. The lines like ?it is a question of making systematic, cogent and effective use of the general concerns that people do have? and ?This is not to claim that people invariably invoke their ideas of justice? suggest h]that they do not always act in a socially sensitive manner. Thus assumption 1 is correct.

Assumption 2 is correct as can be seen from the lines but a sense of justice is among the concerns that can move people and often do and Space does not have to be artificially created in human mind for the ideas of justice and fairness-through moral bombardment or ethical haranguing. That space already exists, and it is a question of making systematic, cogent and effective use of the general concerns that people do have.

Hence correct option is (c).

67. A

The line ?an important part in success of various forms of social organization, including the market mechanism, democratic politics, elementary civil and political rights, provision of basic public goods, and institutions of public action and protest make 1 and 2 correct. But right to equality is not mentioned in the passage; only elementary civil and political rights are mentioned. Thus we cannot assume that they contain right to equality or not. Thus correct option is (a).

68. B

The paragraph 1 suggests that sense of justice is an important concern for individual. The line But a sense of justice is among the concerns that can move people and often do. Social values can play-and have played-an important part in success of various forms of social organization proves it.

The paragraph 2 suggests that sense of social justice is a natural part of individual conscience.

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The lines But the basic idea of justice are not alien to social beings and That space already exists proves this. Thus the central message of the passage can only be option (b). All other options are just individual ideas presented in the passage. Thus the correct answer is option (b).

69. D

Statement 1 is wrong as while it is argued that all those who are in position to help make sure that a person has her rights fulfilled in the line While it is not the specific duty of any given individual to make sure that person has her rights fulfilled, the claim can be generally addressed to all those who are in position to help. But it is nowhere argued that if this is not followed the right would be meaningless.

Also contrary to this claim has been argued in the line It is, however, possible to resist the claim that any use of right except with co-linked perfect obligations must lack cogency.

Statement 2 is wrong as can be seen from the line It is, however, possible to resist the claim that any use of right except with co-linked perfect obligations must lack cogency. Thus a right does not necessarily have a duty associated with it.

70. B

The line the claim can be generally addressed to all those who are in position to help. Indeed, Immanuel Kant himself had characterized such general demands as imperfect obligations make statement 2 correct. The line The claim is addressed generally to who can help, even though no particular person or agency may be charged to bring about the fulfillment of the rights involved make statement 3 correct.

Statement 1 is wrong as the presence of specific obligations attached to a right does not make them perfect or imperfect obligations but whether they are charged to a particular agent or not make them perfect or imperfect obligations.

71. C

First paragraph wonders whether a right can have any meaning without an associated perfect obligation. Second paragraph gives argument against it and argues that a right is associated with imperfect obligation. Third paragraph also support it as can be seen from the line the ethical assertion of a right goes beyond the value of the corresponding freedom only to the extent that some demands are placed on others that they should try to help. Thus option (c) is the correct answer.

72. D

Statement 1 is wrong as the we cannot escape the thought that the terrible occurrences that we see around us are quintessentially our problems. They are our responsibility puts responsibility of various terrible occurrences in this world on us but the passage nowhere makes any claim that we can elevate these sufferings ourselves. Thus the assumption is outside the scope of the passage.

Statement 2 is wrong as the line Russell is supposed to have answered, I will ask him: God Almighty, why did you give so little evidence of your existence suggest that there is little evidence of God's existence but does not suggest or nowhere the passage suggest this world would be nicer if there was a firm evidence of the existence of God. Also the line God has reasons to want us to deal with these matters ourselves suggests that even if there is a God, it does not mean that world would be nicer.

73. B

Paragraph 1 argues existence of an all powerful benevolence does not seem likely given the level of misery in this world. But paragraph 2 refute this and argue that existence of misery does not prove anything about the existence of God. It suggests that God may have reasons to want us to deal with these matters ourselves. It further says that as people who live-in a broad sense-together, we cannot escape the thought that the terrible occurrences that we see around us are quintessentially our problems. They are our responsibility-whether or not they are also anyone else's. Thus the essential message of the passage is that we should take responsibility for these problems. Thus correct option is (b).

74. D

Statement 1 is wrong as the line include so many people afflicted by acute misery, persistent hunger and deprived and desperate lives, and why millions of innocent children have to die each year from lack of food or medical attention or social care mentions some of the problems and puts responsibility of these on humans but nowhere generalizes that humans are responsible for all the problems in this world.

Statement 2 is wrong as the line They are our responsibility-whether or not they are also anyone else's. only mention that we should take responsibility but does not suggest anything about God.

75. B

Given sentences should be first represented as sufficient condition 'necessary condition. Then, only those inferences of the restatement form,

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or reverse negation form are valid. Only negation or only reversal sentences are invalid.

i) dark clouds ' rains (Whenever is a sufficient condition indicator)

ii) Rains ' Traffic Jam (If is a sufficient condition indicator)

iii) dark clouds ' July (Only is a necessary condition indicator)

(a) Incorrect. NO dark clouds 'NO traffic Jam, Negation of the given condition is invalid

(b) Correct. Dark clouds ' July, Restatement form of sentence is valid

(c) Incorrect. Traffic Jam' Rain,Only reversal of a given condition is invalid

(d) Incorrect. July'rain Only reversal of the given sentence is invalid.

76. D

(a) Incorrect. Nothing in the given statement mentions about the quantum of sporting talent.

(b) Incorrect. Nothing is mentioned about the sports polices of the two countries

(c) Incorrect. Given statement is only about Olympics. Cricket is outside the given context.

(d) Correct. Based on the limited information, we cannot conclude any relation between population and medals tally.

77. D

(a) Incorrect. Poland was caught between two fires and not Nazis.

(b) Incorrect. The given statements do not indicate that the Nazis killed 20 million. (c). Incorrect. There is no mention of World War II or its start in the given sentences. (d). Correct. "So was set in. 20 million lives."

78. C

Question is on the assumption behind the sentence -

(a) Incorrect. This is not an assumption; it is fact according to the sentence.

(b) Incorrect. This is not an assumption; it is fact according to the sentence.

(c) Correct. This is an assumption. The writer would not have called for people to be taught the indignation felt by those injured by an arbitrary act, if all the people would have cared about others concerns.

(d) Incorrect. This is not an assumption; it is a fact, as it is a restatement of the given sentence.

79. C

Option (a) is incorrect as it neither weakens nor strengthens the fact that flying is safer than driving. It only gives a reason for fatalities in driving.

Similar is option (b). It is weakening the given statement but very remotely. It may be the case that we feel safer in driving but actual risk is more. In this case it will strengthen the given argument.

Option (c) weakens it most as it negates the statistics behind the statement. According to it fatality rates are calculate for each passenger individually and not for the actual distance travelled. Thus the figure becomes very small for flying but we don't know anything about the chances of accident per flight which actually determines its safety.

Option (d) also weakens the given statement to some extent but not as strongly as option (c).

80. A

Statement is about democracy providing India some stability and security. In this regard option (c) and (d) are irrelevant. In no way we can connect options (c and d) with stability and security of India.

Option (b) also does not suggest anything in this regard. Respectable international position is also not related with stability and security of India.

On the other hand, option (a) supports this statement as diversities of India could have been a main threat to the stability and security of India. Thus correct answer is option (a).

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