

Lockdown 2.0 Study Plan| Day 13



Direction: In the given question six sentences of a passage are given. The first and sixth sentences are given in the beginning as S1 and S6. The middle four sentences in each have been jumbled up and labelled P, Q, R and S. You are required to find the proper sequence of the four sentences and mark your response accordingly.

1. S1: Improvement of the quality of education has always been the key concern for education.

S6: Not in terms of the number of years of schooling but the quality aspect of the development of the individual.

P: Quality of education should not be considered in fragmented terms but in a more holistic and expanded manner.

Q: It has become synonymous with employability, preparation for the world of work, less and less consideration is given to the subject of education.

R: In recent times, quality education has been defined in more pragmatic terms.

S: That is an individual student and his/her full development as a human being.

- A. RQPS
- B. SRQP
- C. PQRS
- D. RQSP

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2. S1: Every government faces challenges and there are some more prominent than others.

S6: So we are in a way on the cusp of decision-making about providing meaningful and sustainable jobs to millions of India's youth over the next many years.

P: The inevitable realities of artificial intelligence, digitalization, and automation will keep the productivity clock ticking.

Q: In the face of declining agriculture opportunities, tough industrial competition, rising protectionism, and reshoring.

R: Job creation is perhaps the most prominent of them all.

S: The trade-off is that some of these technologies will replace some mental tasks, some physical ones and some that are both.

- A. PQRS
- B. PRQS
- C. RQPS
- D. RQSP

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3. S1: Aristotle first projected that dreams are nothing but magnified image to our small projected stimulus arising during sleep.

S6: The primary feature of this incubation technique was that the sick person would have therapeutic dreams while he/she is sleeping.

P: Greek, in addition to these thoughts, welcomed and was involved in the process of incubation which they claimed as the therapeutic method.

Q: He further drew a conclusion that dream may counter the physician that the ignition of some bodily changes which has not been observed in waking.

R: The Greeks defined incubation as a way of encouraging and uplifting healing dreams sent by a god or saviours, especially by Asclepius, a divine physician of that era.

S: He wrote that Men think that they are not certain walking through fire and are vigorously heated up when a small heat is produced about certain parts.

- A. SQPR
- B. SPRQ



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- C. PQRS
- D. RQSP

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4. S1: Six friends work nights at a call center in India, providing technical support for a major U.S. appliance corporation.

S6: Then one call, from one very special caller, changes everything.

P: But tonight is no ordinary night. Tonight is Thanksgiving in America: Appliances are going haywire, and the phones are ringing off their hooks.

Q: They all try to make it through their shifts—and maintain their sanity—under the eagle eye of a boss whose ego rivals his incompetence.

R: Yet behind the headsets, everybody's heart is on the line.

S: Skilled in patience—and accent management—they help American consumers keep their lives running.

- A. PQRS
- B. SRQP
- C. RSQP
- D. QPRS

Direction: In the given question six sentences of a passage are a given. The first and sixth sentences are given in the beginning as S1 and S6. The middle four sentences in each have been jumbled up and labelled P, Q, R and S. You are required to find the proper sequence of the four sentences and mark your response accordingly.

5. S1: Brain drain is the migration of skilled human resources for trade, education, etc. S6: These countries have invested in the education and training of young health professionals.

P: Trained health professionals are needed in every part of the world.

Q: This is of growing concern worldwide because of its impact on the health systems in developing countries.

R: However, better standards of living and quality of life, higher salaries, access to advanced technology and more stable political conditions in the developed countries attract talent from less developed areas.

S: The majority of migration is from developing to developed countries.

- A. PQRS
- B. SRQP
- C. PRSQ
- D. QPRS

Direction: In the given question six sentences of a passage are a given. The first and sixth sentences are given in the beginning as S1 and S6. The middle four sentences in each have been jumbled up and labelled P, Q, R and S. You are required to find the proper sequence of the four sentences and mark your response accordingly.

6. S1: Once there lived a poor woodcutter. He used to cut trees in the woods. One day he was cutting wood on the bank of a river. S6: Then he brought an iron axe. The woodcutter took it gladly. Mercury was much pleased. He rewarded the woodcutter with the other two axes.

P: His axe fell down into the river. The river was deep. He could not take his axe out. He sat on the bank and began to weep.

Q: Mercury, the god of water appeared. He asked the reason of his weeping.

R: The woodcutter told the whole story. Mercury dived into the water and brought a golden axe.

S: The woodcutter refused to take it. Mercury again dived and brought a silver axe. The woodcutter did not take it either.

- A. PQRS
- B. SRQP
- C. PRSQ
- D. QPRS



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7. S1: I turn the page; it's not the page of a book

S6: I know I'm repeating myself. That might be because I've already begun metaphorizing them.

P: The pages, therefore, are not light.

Q: Unlike the pages of a book, they are black in colour---greyish black, as if all the light has been eaten by the photos, leaving them bereft of light.

R: These pages are heavy, thicker than chart paper. They are the pages of my parents' old photo album.

S: Those are light and easy to turn, easy enough for even a breeze to move.

- A. PQRS
- B. SRQP
- C. PRSQ
- D. QPRS

Direction: In the given question six sentences of a passage are a given. The first and sixth sentences are given in the beginning as S1 and S6. The middle four sentences in each have been jumbled up and labelled P, Q, R and S. You are required to find the proper sequence of the four sentences and mark your response accordingly.

8. S1: Hoppers has been jammed from the day it opened two years ago, serving a rare find in central London.

S6: It will be larger and more comfortable, with a more relaxed vibe.

P: Hoppers is opening up a second site that can seat as many as 85 across two floors—plus another 16 outside, well over double the 40 seats of the original outlet.

Q: They will soon have a little more breathing room.

R: The second outlet, scheduled to open in St. Christopher's Place in Marylebone in early September, will accept reservations—a relief to many who have waited for hours at the restaurants.

S: Diners would wait for up to three hours for a table.

- A. PQRS
- B. QSRP
- C. PRQS
- D. SQPR

Direction: In the given question six sentences of a passage are a given. The first and sixth sentences are given in the beginning as S1 and S6. The middle four sentences in each have been jumbled up and labelled P, Q, R and S. You are required to find the proper sequence of the four sentences and mark your response accordingly.

9. S1: My friend, Ranjan Bhattacharya, 52, retired from the Navy about a year ago, after serving in submarines, arguably one of the world's most isolated jobs.

S6: Like other 60-plus people, he keeps a lot of money in the bank in case of medical emergencies.

P: In this time, he's acquired a large portfolio of small, obscure stocks.

Q: Post retirement, he's made up for lost time by turning into a news junkie.

R: Another friend, Abhijit Banerjee, 61, is worried if the government is really going to seize his fixed deposits and convert them forcibly into bank shares.

S: Watching the TV market shows, he follows recommendations and buys.

- A. QRPS
- B. QPSR
- C. PSQR
- D. RSQP

Direction: In this section each item consists of six sentences of a passage. The first and sixth sentences are given in the beginning as S1 and S6. The middle four sentences each are jumbled up and labelled P, Q, R and S. You are required to find the proper sequence of the four sentences and



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mark your response accordingly on the answer sheet.

10.

S1: The importance of ethics cannot be undermined.

S6: This would make things chaotic and give rise to crime.

P: Taking decisions becomes easier for people as the right and wrong has already been defined.

Q: This system has basically been put in place so that people know how to act right and maintain peace and harmony in society.

R: Imagine if the right doings and wrongdoings were not defined, everyone would act as per their will based on their own versions of right and wrong.

S: A child needs to be taught what behaviour is accepted in the society and what is not from the very beginning in order for him to live in harmony with society.

- A. RPSQ
- B. SQPR
- C. PQRS
- D. QPSR

11. The square root of 4624 is:

- A. 68
- B. 66
- C. 72
- D. 64

12. If $N = (12345)^2 + 12345 + 12346$, then what is the value of \sqrt{N} ?

- A. 12346
- B. 12345
- C. 12344
- D. 12347

13. The sum of two positive numbers is 14 and difference between their squares is 56. What is the sum of their squares?

- A. 106
- B. 196
- C. 53
- D. 68

14. Find the last two digit of given expression-

$$(654321)^{3527}$$

- A. 61
- B. 71
- C. 51
- D. 41

15. The sum of a non-zero number and twenty times its reciprocal is 9. What is the number?

- A. -5
- B. 3
- C. -3
- D. 5

16. The first and last terms of an arithmetic progression are 23 and -42. What is the sum of the series if it has 14 terms?

- A. 91
- B. -133
- C. 93
- D. 133

17. The sum of a number and 4 times its reciprocal is 5. What can be the number?

- A. 4
- B. 5
- C. 6
- D. 7

18. A boy is asked to multiply by $\frac{4}{5}$ but he

divides it by $\frac{4}{5}$ and his result is 9 more than original result then what is sum of the digits of number?

- A. 7
- B. 5
- C. 4
- D. 2

19. $(91 + 92 + 93 + \dots + 110)$ is equal to

- A. 4020
- B. 2010
- C. 6030
- D. 8040



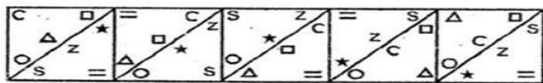
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20. Between 50 and 150 how many numbers are divisible by 7?

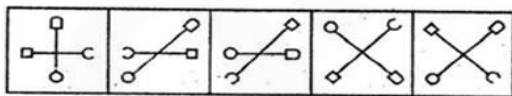
- A. 15
- B. 16
- C. 17
- D. 14

21. In the question given below which of the option figures will come after the problem figures, if the sequence were continued?



- A.
- B.
- C.
- D.
- E.

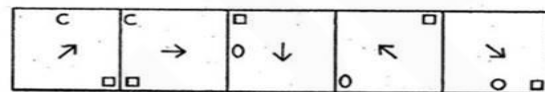
22. In the question given below which one of the five answer figures on the right should come after the problem figures on the Left, if the sequence were continued?



- A.
- B.

- C.
- D.
- E.

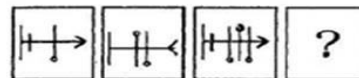
23. In the question given below which of the option figures will come after the problem figures, if the sequence were continued?



- A.
- B.
- C.
- D.
- E.

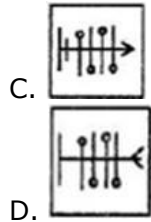
24. In the question given below which of the option figures will come after the problem figures, if the sequence were continued?

Question Figures:

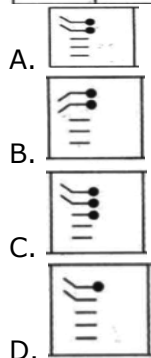
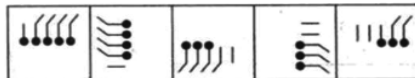


- A.
- B.

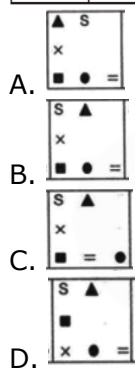
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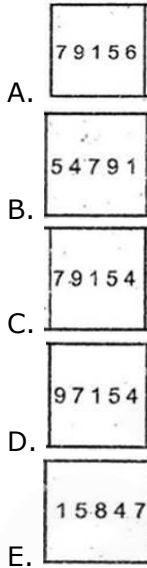
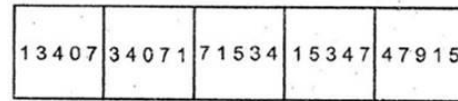
25. In the question given below which of the option figures will come after the problem figures, if the sequence were continued?



26. A series is given with one term missing. Select the correct alternative from the given ones that will complete the series.

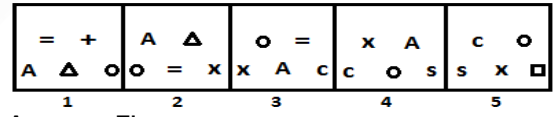


27. In the question given below which of the option figures will come after the problem figures, if the sequence were continued?

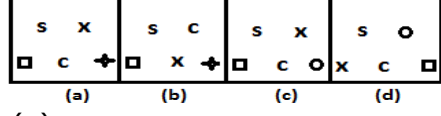


28. In the question given below which of the option figures will come after the problem figures, if the sequence were continued?

Question Figure:-



Answer Figure:-

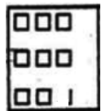
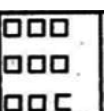
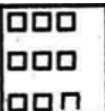
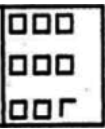


- A. (a)
- B. (b)
- C. (c)
- D. (d)

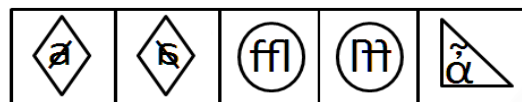
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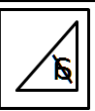
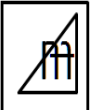


Problem figure:



- A. 
- B. 
- C. 
- D. 

30. Select the figure that will come next in the following series.



- A. 
- B. 
- C. 
- D. 

31. In December 2018, India's heaviest satellite called _____ was sent into orbit by a French rocket.

- A. GSAT-6
- B. GSAT-19
- C. GSAT-11
- D. GSAT-17

32. MIRV stands for

- A. Multi-directional Independently Reoriented Vehicle
- B. Multipurpose Integrally-targeted Revolutionary Vehicle
- C. Multiple Independent-target Reentry Vehicle
- D. Multiple Independent Reentry Vehicle

33. Who Invented Gas Turbine?

- A. Edwin Howard Armstrong
- B. John Barber
- C. Edwin Beard Budding
- D. Nicholas Callan

34. A new technology which provides the ability to create an artificial world and have people interact with it is called?

- A. Televirtuality
- B. Virtual reality
- C. Alternate reality
- D. 3-D reality

35. GSLV Project of India is connected with _____.

- A. Agriculture development
- B. Conservation of river water
- C. Banking system
- D. Missile engines for space programmes

36. The first person to conduct heart transplantation in India is

- A. Dr. PKK Ayyangar
- B. Dr. R Valiathan
- C. Dr. Venugopal
- D. Dr. R Kesavan Nair

37. The acid-rain destroys the vegetation because it contains:

- A. Ozone
- B. Carbon monoxide
- C. Sulphuric acid
- D. Nitrates

38. Frederick sanger was awarded the Nobel prize in chemistry for _____.

- A. Work on the structure of protein and insulin
- B. Structure of atom
- C. Radioactivity
- D. All of the above



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39. India's first mission to the moon, Chandrayaan-1 was launched from _____.

- A. Srisailem
- B. Srikalahasti
- C. Srikakulam
- D. Sriharikota

40. The word CNG in the transport network system stands for

- A. Chlorine Natural Gas
- B. Commercial Natural Gas
- C. Compressed Natural Gas
- D. Condensed Natural Gas



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###ANSWERS###

1. Ans. D.

The opening statement talks about the improvement of the quality of education as a key concern. The next statement would be talking about the pragmatic definition of quality education in R. The next statement would be continuing talking about the synonymous nature of education with employability and other factors in Q. The next statement would be talking about the complete development of an individual as a human being in S and then it talks about the holistic and expanded form of quality of education in P which very well connects with the closing statement. Thus, the correct sequence is RQSP.

2. Ans. C.

The passage about knowledge and job creation. The opening statement talks about the challenges faced by the government. It is followed by statement R. This is because it talks about the most prominent challenges among all. So, Q follows R as it further elaborates the about the various factors affecting job creation like declining agriculture opportunities, tough industrial competition, rising protectionism, and reshoring. The next statement would be talking about the realities of artificial intelligence, digitalization, and automation in P. And the concluding statement would be talking about the technology that would be replacing some of the mental and physical tasks in S which logically connects with the closing statement forming a coherent paragraph. Thus, the correct sequence is RQPS.

3. Ans. A.

The passage about the historical perspective of dreaming. The opening statement talks about the Aristotle views of dreaming. It would be followed by S. The continuing statement would describe how the heat is produced in certain parts according to Aristotle. It is followed by Q as it talked about the conclusion that dream may counter the physician. The next

sentence would be P as it talks about the Greek's process of incubation. Then the next statement R defines incubation as a way of encouraging and uplifting healing dreams sent by a god or saviours and thus connects logically with the concluding statement. Thus, the correct sequence is SQPR.

4. Ans. B.

The passage talks about the night at a call center. The opening statement talks about six friends working at a call center and their job. The next statement in continuation would be talking about the way they are helping American consumers in statement S. The following statement would be talking about the feelings of everyone behind the headsets in statement R. And this was the reason why they all try to make their shifts under the eye of the boss in statement Q. The next statement i.e. P will be talking about the not an ordinary night but a Thanksgiving night which gets connected with the closing statement to form a coherent paragraph. Thus, the correct sequence is SRQP.

5. Ans. C.

The opening statement talks about 'Brain drain'. The next statement in continuation will be talking about the reason of brain drain i.e. statement P. The following statement would be talking about the attributes that attract talent to developed countries i.e. statement R. The next statement mentions the countries from where brain drain takes place that is from developing to developed countries in statement S and it followed with the growth of worldwide concern in Q which connects with the closing statement i.e. how he saw himself. Thus, the correct sequence is PRSQ.

6. Ans. A.

The opening statement talks about the poor woodcutter and his job. Thus, the statement in continuation will be talking about how his axe falls down while cutting wood in P. The next statement talks about



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the appearance of the god of water, Mercury in statement Q. R will be the next statement as it talks about the way the woodcutter narrates the whole story to God. And the continuing statement would be talking about the honesty of the woodcutter in statement S which connects well with the given closing statement thus forming a coherent paragraph. Thus, the correct sequence is PQRS.

7. Ans. B.

The opening statement talks about turning the page of something that is not a book. The connecting statement S would be describing the nature of the page which is light and easy to turn. Next statement compares the page with a chart paper and mentions that it is a photo album in R. The next statement talks about the colors of the album. The last statement i.e. P describes the pages not being the light which connect well with the given closing statement thus forming a coherent paragraph. Thus, the correct sequence is SRQP.

8. Ans. D.

The passage talks about a restaurant 'hoppers', opening its second branch. The first sentence talks about the restaurant itself. This should be followed by sentence S which describes how long diners would have to wait for a table which in turn is followed by statement Q which signifies some development. Moreover, the word 'They' used at the beginning of the sentence reflects that it has been used for the 'diners' who have faced the problem of waiting so long in the queues. This is followed by statement P which reveals what the new development is all about and a solution to the problem. This is followed by statement R which describes what is new at the second outlet and aptly connects the last line to the paragraph, as it adds on the details about the second outlet. Thus, the correct sequence is SQPR.

9. Ans. B.

The passage is about author's two friends and their post retirement money management plans.

S1 mentions Ranjan Bhattacharya as retired, followed by what he did post retirement in Q. The context then mentions how he made up for lost time continued in P mentioning that he is dealing in stocks and acquiring information from TV in S. This is then followed by R mentioning another friend Abhijit Banerjee who have fixed deposits and keeps a lot of money in the bank in case of medical emergencies, thus R and S6 form a pair.

Hence, the correct sequence is QPSR.

10. Ans. B.

The sentence P introduces the concept of right and wrong in the passage. Sentence R continues to discuss this concept by talking about right and wrong doings. So, it is sentence R which must follow sentence P. Option B gives a sequence which contains this. Therefore B is the correct answer.

11. Ans. A.

The square root of 4624 is 68.

Let's do this question by option elimination method.

In a square of any number, 4 comes at unit place only having unit digit 2 and 8. So, option B and D cannot be the answer as their unit digits are not either 2 or 8.

If we see 72 which is greater than 70, the square of 70 will be 4900. So square of 72 must be greater than 4900. We can say that 72 cannot be the square root of 4624, Hence, only option A left which is the correct answer.

12. Ans. A.

$$\begin{aligned} N &= (12345)^2 + 12345 + 12346 \\ &= 12345(12345 + 1) + 12346 \\ &= 12346(12345 + 1) \\ &= (12346)(12346) \\ \sqrt{N} &= 12346 \end{aligned}$$

13. Ans. A.

$$\begin{aligned} x + y &= 4 \dots \dots \dots (i) \\ x^2 - y^2 &= 56 \dots \dots \dots (ii) \end{aligned}$$

To find :- $x^2 + y^2$

$$\because x^2 - y^2 = 56$$

$$(x - y)(x + y) = 56$$

$$\Rightarrow 14(x - y) = 56$$



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$$\Rightarrow x - y = 4 \dots\dots (iii)$$

By adding eqn. (i) & (ii)

$$2x = 18 \Rightarrow x = 9$$

$$\therefore y = 5$$

$$\therefore x^2 + y^2 = 9^2 + 5^2$$

$$= 81 + 25 = 106.$$

14. Ans. D.

Since the base is ending with 1 so last digit will always be 1 and second last digit is unit digit of multiplication of second last digit of base to the last digit of power.

$$\therefore (654321)^{3527} \rightarrow 7 \times 2 \setminus 1 \Rightarrow 41.$$

15. Ans. D.

Let the number be x

$$x + \frac{20}{x} = 9$$

Then

$$x^2 - 9x + 20 = 0$$

$$x^2 - 5x - 4x + 20 = 0$$

$$\text{Hence } x = 4 \text{ or } 5$$

So required answer is 5.

16. Ans. B.

we know that, if a is first term and l is last term of a series of 14 terms, then

$$\text{Sum} = n/2[a + l]$$

$$= (14/2) [23 - 42]$$

$$= 7[-19]$$

$$= -133$$

17. Ans. A.

Let x be the number. Then,

$$x + \frac{4}{x} = 5 \dots (i)$$

$$x^2 - 5x + 4 = 0$$

$$(x - 4)(x - 1) = 0$$

$$x = 1 \text{ or } x = 4$$

18. Ans. D.

Let x be the number

According to question

$$\frac{x}{4} - x \times \frac{4}{5} = 9$$

$$x \times \frac{5}{4} - x \times \frac{4}{5} = 9$$

$$\frac{9x}{20} = 9$$

$$\therefore x = 9 \times \frac{20}{9} = 20$$

19. Ans. B.

First term of series = 91

Last term = 110

Difference between the term = 1

Number of term = $\frac{110 - 91}{1} + 1 = 20$

Sum of terms =

$$\frac{n}{2}(a + l) = \frac{20}{2}(91 + 110) = 2010$$

20. Ans. D.

First number between 50 and 150 which is divisible by 7 = 56

And last number between 50 and 150 which is divisible by 7 = 147

This will form an AP, where a = 56, l = 147 and d = 7

Thus, last term of an AP, $l = a + (n - 1)d$

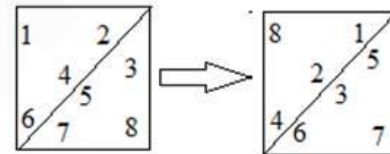
$$\Rightarrow 147 = 56 + (n - 1)7$$

$$\Rightarrow n - 1 = 13$$

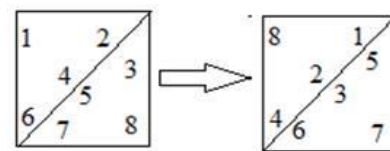
$$\Rightarrow n = 14 \text{ terms}$$

21. Ans. B.

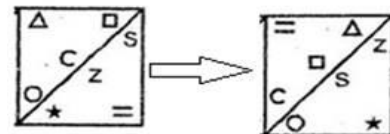
The changes from 1st to 2nd figure will be,



The changes from 3rd to 4th figure will be,



Similarly, The changes from 5th to 6th will be,



Hence, option B is the correct response.

22. Ans. E.

From problem figure (1) to (2) one design rotates through 45° clockwise while the other designs rotate through 180° . Similar



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changes occur from problem figure (3) to (4) and from problem figure (5) to answer figure.

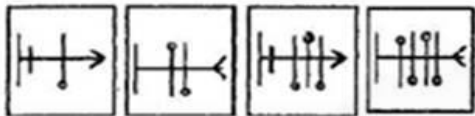
23. Ans. D.

Each figure has three symbols in the first two figure; C, square and \hat{a} are used. Square moves from one corner to next corner in clockwise direction. \rightarrow turns with 45° anticlockwise between first and second figure, then 90° between second and third then 135° between third to fourth then again 180° between fourth to fifth figure and so on.... C converts in to oval then in a square. (C is use in 1^{st} and 2^{nd} figure, oval is used in 3^{rd} and 4^{th} figure similarly square will be used in 5^{th} and answer figure.) These symbols move in anticlockwise. After these assumptions the correct answer figure will be (1).

24. Ans. D.

In every next figure the right side arrow appears in opposite directions. In left side first a long line appears and next times another a small line appears with this line.

In middle design, the element 'i' appears new every time.



25. Ans. A.

First one circle and then one slant line is disappearing in alternate steps.



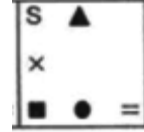
Hence, option A is correct.

26. Ans. B.

The number of elements in box 1 and 2 is the same and the elements are interchanged with themselves. Also, they are shifting one place in a clockwise direction.

Similarly, for box 3 and 4, the number of elements are the same and the elements are interchanged with themselves. Also,

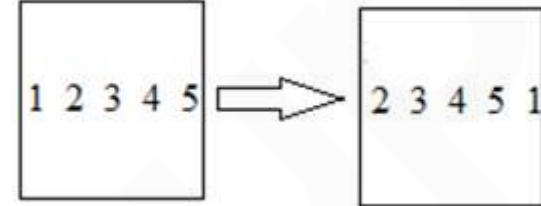
they are shifting one place in a clockwise direction.



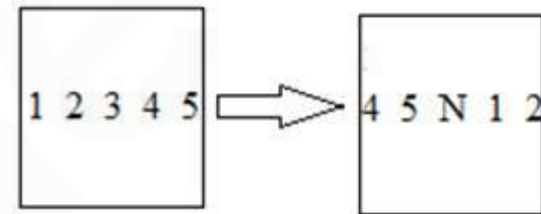
Hence, option B is the correct answer.

27. Ans. C.

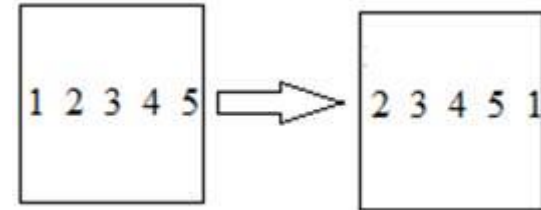
The change between 1^{st} and 2^{nd} figure is same as changes between 3^{rd} and 4^{th} figure, pattern of change is as:



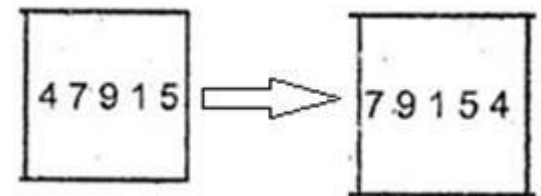
Now changes between 2^{nd} to 3^{rd} is same as changes between 4^{th} to 5^{th} , it can be explain as:



These two changes occurs alternatively hence changes between 5^{th} and answer figure will be same as changes between 1^{st} and 2^{nd} figure.



Hence



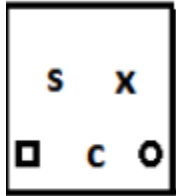
28. Ans. C.

The elements are moving in the below sequence and also, the symbol that

reached at the white circle position gets replaced by a new element.



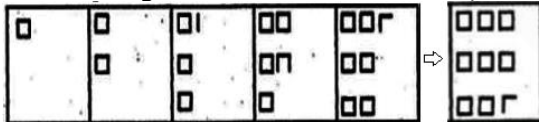
The next figure will be -



Hence, option (C) is the correct response.

29. Ans. D.

In the subsequent figure respectively 4, 5, 6, 7, 8 line segment is added to complete the square. So, following the same pattern the next figure in the series will be;



Hence, option (D) is the correct response.

30. Ans. D.

Logic: Figure 2 is the mirror image of figure 1, Figure 4 is the mirror image of figure 3 and Figure 6 is the mirror image of figure 5.

So, after carefully observing the figures given in the question, it is very clear that the answer figure (D) will be the next figure.



Hence, the correct answer is option (D).

31. Ans. C.

*** In December 2018, India's heaviest satellite called GSAT 11 was sent into orbit by a French rocket.**

* It was launched from Ariane-5 rocket of Arianespace from French Guiana.

* Weighing about 5,854 kg, GSAT-11 would play a vital role in providing broadband services across the country, and also provide a platform to demonstrate new generation applications.

* The satellite would be initially placed in the Geosynchronous Transfer Orbit and subsequently be raised to Geostationary Orbit by firing the Liquid Apogee Motor on-board the satellite.

32. Ans. D.

MIRV, abbreviation of Multiple Independent Reentry Vehicle, any of several nuclear warheads carried on the front end, or "bus," of a ballistic missile. Each MIRV allows separately targeted nuclear warheads to be sent on their independent ways after the main propulsion stages of the missile launch have shut down.

33. Ans. B.

John Barber invented the gas turbine. A gas turbine is a of internal combustion engine. It has an upstream rotating compressor coupled to a downstream turbine, and a combustor. A patent was given to John Barber, an Englishman, for the first true gas turbine. The turbine was designed to power a horseless carriage.

34. Ans. B. • **Virtual Reality (VR)**, which can be referred to as immersive multimedia or computer-simulated life, replicates an environment that simulates physical presence in places in the real world or imagined worlds and lets the user interact in that world.

• Virtual reality artificially creates sensory experiences, which can include sight, hearing, touch, smell, and taste.

35. Ans. D.

• GSLV (Geosynchronous satellite launch vehicle) is an expendable launch system operated by Indian Space Research Organisation (ISRO).

• It was developed to enable India to launch its INSAT-type satellite into geostationary orbit.

36. Ans. C.

On August 3, the centre's head, Dr P. Venugopal, led a team of doctors in carrying out India's first heart transplant.

37. Ans. C.

Sulphur dioxide and nitrogen oxides both combine with water in the atmosphere to create Sulphuric acid . Acid rain acidifies the soils and waters where it falls, killing off plants.

38. Ans. A.

* Frederick Sanger was an English biochemist who was twice the recipient of the Nobel Prize for chemistry.

* He was awarded the prize in 1958 **for determination of the structure of insulin molecule.**

* He shared the prize with Paul Berg and Walter Gilbert in 1980 for his determination of base sequences in nucleic acids.

39. Ans. D.

* **India's First mission to the moon, Chandrayaan-1 was launched from**

Satish Dhawan Space Centre, Sriharikota.

* It was launched by the Indian Space Research Organisation in October 2008, and operated until August 2009.

* The PSLV-C11 rocket, an upgraded version of the Indian Space Research Organisation's (ISRO) Polar Satellite Launch Vehicle, lifted it and injected the spacecraft into a highly elongated orbit around Earth. This marked the beginning of Chandrayaan-1's journey to the Moon.

* On 2 July 2016, NASA used ground-based radar systems to relocate Chandrayaan-1 in its lunar orbit, more than seven years after it shut down.

40. Ans. C.

CNG stands for **compressed natural gas**. Natural gas is predominantly methane and is used by many people for cooking and heating in their homes. Like petrol and diesel it is a fossil



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