

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

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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 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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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.

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. 4624 का वर्गमूल कितना है:

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

12. यदि $N = (12345)^2 + 12345 + 12346$, है, तो \sqrt{N} का मान क्या है?

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

13. दो धनात्मक संख्याओं का योग 14 है तथा उनके वर्ग के मध्य का अंतर 56 है | उनके वर्ग का योग क्या है?

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

D. 68

14. दिए गए व्यंजक के अंतिम दो अंक ज्ञात करें?

(654321)³⁵²⁷

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

15. एक गैर-शून्य संख्या और इसके व्युत्क्रमानुपाती के बीस गुना का योग 9 है | तो वह संख्या क्या है?

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

16. एक अंकगणितीय प्रगति का पहला और आखिरी पद 23 और -42 हैं | यदि शृंखला में 14 पद हैं, तो योग क्या होगा?

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

17. एक संख्या और उसके व्युत्क्रम के 4 गुणा का योग 5 है | वह संख्या क्या हो सकती है?

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

18. किसी लड़के से एक संख्या $\frac{4}{5}$ से गुना करने के लिए

कहा गया, किन्तु उसने संख्या को $\frac{4}{5}$ से विभाजित कर दिया और उसका परिणाम, सही परिणाम से 9 अधिक आया, संख्या के अंकों का योग क्या है?

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

19. $(91+92+93+\dots+110)$ के बराबर है

- A. 4020



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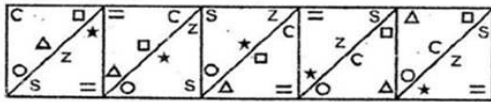
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- B. 2010
- C. 6030
- D. 8040

20. 50 और 150 के बीच कितनी संख्याएँ 7 से विभाज्य हैं?

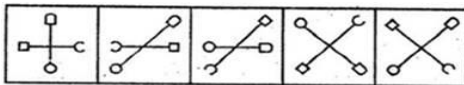
- A. 15
- B. 16
- C. 17
- D. 14

21. निम्नलिखित प्रश्न में यदि सही क्रम जारी रहा तो दी गई पांच विकल्प आकृतियों में कौन-सी उत्तर आकृति प्रश्न आकृतियों के तत्काल बाद आनी चाहिए?



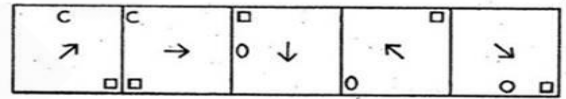
- A.
- B.
- C.
- D.
- E.

22. नीचे दिए गए प्रत्येक प्रश्नों में से पांच उत्तर चित्र में से एक उपयुक्त जवाब है जो बायीं से दायीं की ओर अनुकरण किया गया है, अगर अनुक्रम जारी रखा गया हो तो?



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

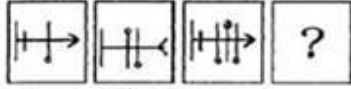
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- A.
- B.
- C.
- D.
- E.

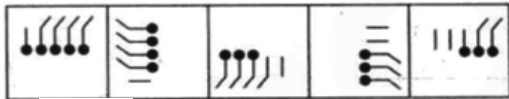
24. निम्नलिखित प्रश्न में यदि सही क्रम जारी रहा तो दी गई पांच विकल्प आकृतियों में कौन-सी उत्तर आकृति प्रश्न आकृतियों के तत्काल बाद आनी चाहिए?

प्रश्न आकृति :



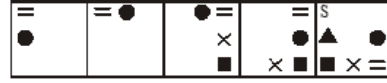
- A.
- B.
- C.
- D.

25. निम्नलिखित प्रश्न में यदि सही क्रम जारी रहा तो दी गई पांच विकल्प आकृतियों में कौन-सी उत्तर आकृति प्रश्न आकृतियों के तत्काल बाद आनी चाहिए?



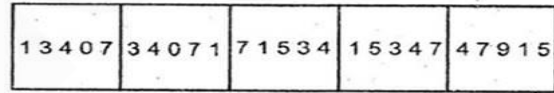
- A.
- B.
- C.
- D.

26. एक अनुक्रम दिया गया है, जिसमें से एक पद लुप्त है। दिए गए विकल्पों में से वह सही विकल्प चुनिए, जो अनुक्रम को पूरा करे।



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

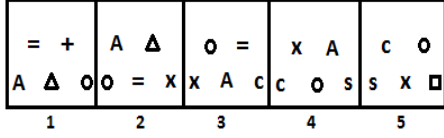
27. निम्नलिखित प्रश्न में यदि सही क्रम जारी रहा तो दी गई पांच विकल्प आकृतियों में कौन-सी उत्तर आकृति प्रश्न आकृतियों के तत्काल बाद आनी चाहिए?



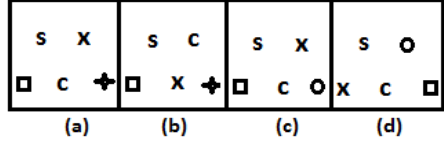
- A.
- B.
- C.
- D.
- E.

28. दिए गए विकल्पों में से अगली आकृति का चयन करें।
प्रश्न आकृति :-

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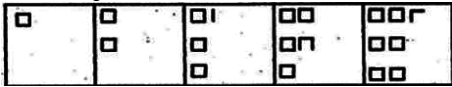
उत्तर आकृति :-



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

29. निम्नलिखित प्रश्न में यदि सही क्रम जारी रहा तो दी गई पांच विकल्प आकृतियों में कौन-सी उत्तर आकृति प्रश्न आकृतियों के तत्काल बाद आनी चाहिए?

प्रश्न आकृतियां :



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

30. निम्नलिखित श्रृंखला में आगे आने वाली आकृति का चयन करें।



- A.

- B.
- C.
- D.

31. दिसंबर 2018 में, फ्रांस के एक रॉकेट से भारत का _____ नामक सबसे भारी उपग्रह अन्तरिक्ष की कक्षा में भेजा गया।

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

32. MIRV किसका प्रतीक है

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

33. गैस टरबाइन का आविष्कार किसने किया था?

- A. एडविन हावर्ड आर्मस्ट्रांग
- B. जॉन बार्बर
- C. एडविन बियर्ड बर्डिंग
- D. निकोलस कलन

34. उस नई तकनीक को क्या कहते हैं, जो एक कृत्रिम दुनिया के सृजन की क्षमता प्रदान करती है और उसमें लोग परस्पर अंतःक्रिया भी करने लगते हैं?

- A. दूरस्थ वास्तविकता
- B. आभासी वास्तविकता
- C. वैकल्पिक वास्तविकता
- D. 3-डी वास्तविकता

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35. भारत की जी.एस.एल.वी. परियोजना से संबंधित है।

- A. कृषि विकास
- B. नदी जल के सर्वेक्षण
- C. बैंकिंग प्रणाली
- D. अंतरिक्ष प्रोग्रामों के लिए मिसाइल इंजन

36. भारत में हृदय प्रत्यारोपण करने वाले पहले व्यक्ति कौन थे?

- A. डॉ. पी.के.के अयंगर
- B. डॉ. आर. वलियाथन
- C. डॉ. वेणुगोपाल
- D. डॉ. आर. केशवन नायर

37. अम्ल वर्षा वनस्पतियों को नष्ट कर देती है क्योंकि इसमें _____ होता है।

- A. ओजोन
- B. कार्बन मोनोआक्साइड
- C. सल्फ्यूरिक एसिड
- D. नाइट्रेट

38. फ्रेडरिक सांगेर को _____ के लिए रसायन विज्ञान में नोबेल पुरस्कार से सम्मानित किया गया था।

- A. प्रोटीन और इंसुलिन की संरचना पर काम
- B. परमाणु की संरचना
- C. रेडियोधर्मिता
- D. उपरोक्त सभी

39. चंद्रमा पर भारत का पहला मिशन चंद्रयान-1, _____ से लांच किया गया था।

- A. श्रीशैलम
- B. श्रीकलाहस्ती
- C. श्रीकाकुलम
- D. श्रीहरिकोटा

40. परिवहन नेटवर्क प्रणाली में सीएनजी का क्या अर्थ है?

- A. क्लोरीन प्राकृतिक गैस
- B. वाणिज्यिक प्राकृतिक गैस
- C. संपीडित प्राकृतिक गैस
- D. संघनित प्राकृतिक गैस



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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.

4624 का वर्गमूल 68 है।

इस प्रश्न को विकल्प विलोपन विधि से करने पर, किसी संख्या के वर्ग में इकाई के स्थान पर 4 आता है और संख्या के इकाई के अंक केवल 2 और 8 हैं, अतः विकल्प B और D उत्तर नहीं हो सकते हैं, क्योंकि उनके इकाई के अंक 2 या 8 हैं।

यदि हम 72 को देखते हैं जो कि 70 से बड़ा है, तो 70 का वर्ग 4900 होगा। 72 का वर्ग 4900 से बड़ा होगा। हम कह सकते हैं कि 72, 4624 का वर्गमूल नहीं हो सकता है।

अतः केवल विकल्प A शेष है जो कि सही उत्तर है।

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 :- $x^2 + y^2$
 $\therefore x^2 - y^2 = 56$



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

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

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

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.

हमें ज्ञात है कि, यदि 14 की श्रेणी में a पहला पद है और

l अंतिम पद है, तो

$$\text{योग} = n/2[a + l]$$

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

$$= 7[-19]$$

$$= -133$$

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 = $110 - 91 + 1 = 20$

Sum of terms =

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

20. Ans. D.

50 और 150 के बीच पहली संख्या जो 7 से विभाज्य है = 56

और 50 तथा 150 के बीच 7 से विभाजित होने वाली आखिरी संख्या = 147

यह एक समांतर श्रेणी का निर्माण करेगी, जहां a = 56, l = 147 and d = 7

अतः समांतर श्रेणी का अंतिम पद, $l = a + (n - 1)d$

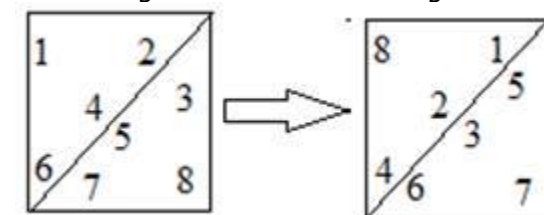
$$\Rightarrow 147 = 56 + (n - 1)7$$

$$\Rightarrow n - 1 = 13$$

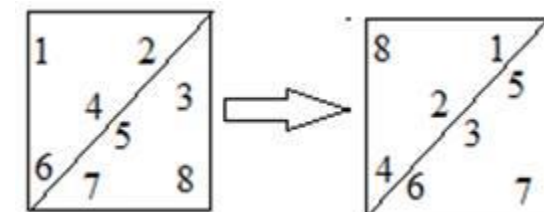
$$\Rightarrow n = 14 \text{ पद}$$

21. Ans. B.

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



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

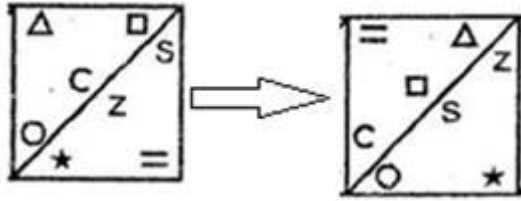


Similarly, The changes from 5th to 6th will be,



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

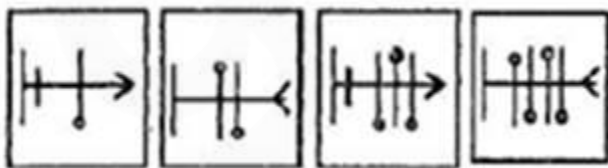
23. Ans. D.

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 1st and 2nd figure, oval is used in 3rd and 4th figure similarly square will be used in 5th 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.

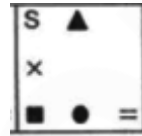


Hence, option A is correct.

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.

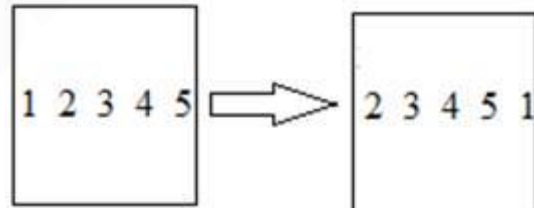
Similarly, for box 3 and 4, the number of elements are the same and the elements are interchanged with themselves. Also, they are shifting one place in a clockwise direction.



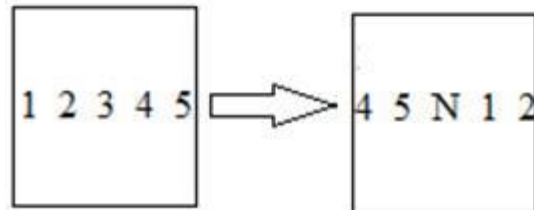
Hence, option B is the correct answer.

27. Ans. C.

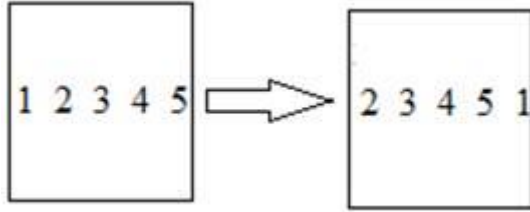
पहली और दूसरी आकृति के बीच का परिवर्तन 3 और 4 आकृति के बीच के परिवर्तन के समान है। बदलाव का प्रारूप इस प्रकार है:



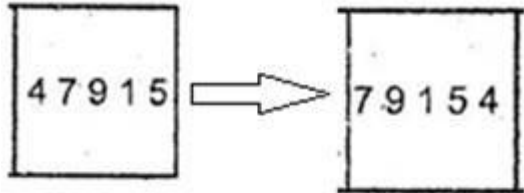
अब 2 से 3 के बीच का बदलाव, 4 से 5 के बीच के बदलाव के समान है, इसे इस प्रकार वर्णित किया जा सकता है:



दो दोनो परिवर्तन एकांतर रूप से घटित होते हैं, इस प्रकार 5 और उसकी उत्तर आकृति के बीच का अंतर, पहली और दूसरी आकृति के बीच के अंतर के समान होगा।



अतः

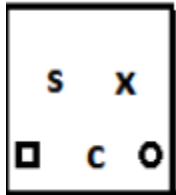


28. Ans. C.

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.



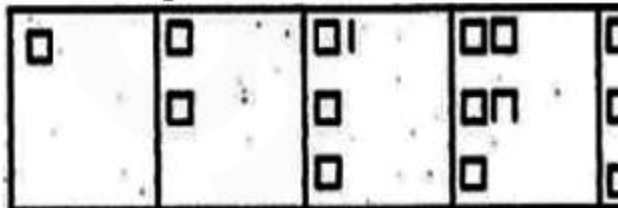
The next figure will be -



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;

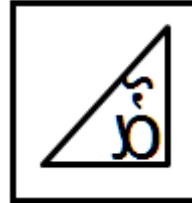


Hence, option (D) is the correct response.

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.

बहु स्वतंत्र पुर्नप्रवेश वाहन (Multiple Independent Reentry Vehicle (MIRV)) एक बैलेस्टिक मिसाइल को युद्ध भूमि में परमाणु युद्धक सामग्री ले जाने वाला एक वाहन है। प्रत्येक MIRV में मिसाइल छोड़े जाने के मुख्य प्रणोदन चरण के बंद होने के बाद स्वतंत्र रूप से लक्ष्य पर परमाणु हथियारों को अलग से गिराने की क्षमता होती है।

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.

- **वर्चुअल रियलिटी (वीआर) Virtual Reality (VR)** जिसे इमर्सिव मल्टीमीडिया या कंप्यूटर-सिम्युलेटेड जीवन के रूप में संदर्भित किया जा सकता है, एक ऐसे वातावरण की नकल करता है जो वास्तविक दुनिया या कल्पना की दुनिया में स्थानों में भौतिक उपस्थिति का अनुकरण करता है और उपयोगकर्ता को उस दुनिया में बातचीत करने देता है।
- आभासी वास्तविकता कृत्रिम रूप से संवेदी अनुभव बनाती है, जिसमें दृष्टि, श्रवण, स्पर्श, गंध और स्वाद शामिल हो सकते हैं।

35. Ans. D.

- जी.एस.एल.वी. (भू-सिंक्रोनस उपग्रह प्रक्षेपण वाहन) भारतीय अंतरिक्ष अनुसंधान संगठन (इसरो) द्वारा संचालित एक प्रक्षेपण योग्य लांच प्रणाली है।
- इसका विकास भारत को अपने इनसैट-प्रकार के उपग्रह को जियोस्टेशनरी कक्षा में लॉन्च करने के लिए सक्षम बनाने हेतु किया गया था।

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.

सल्फर डाइऑक्साइड और नाइट्रोजन ऑक्साइड दोनों पानी के साथ क्रिया करके सल्फ्यूरिक अम्ल का निर्माण करते हैं। अम्लीय वर्षा जहां गिरती है मृदा और जल को अम्लीकृत करती है, पौधों को नष्ट करती है।

38. Ans. A.

* फ्रेडरिक सेंगर एक अंग्रेजी बायोकेमिस्ट थे जो रसायन विज्ञान के लिए नोबेल पुरस्कार के दो बार प्राप्तकर्ता थे।

* उन्हें **इंसुलिन अणु की संरचना के निर्धारण के लिए** 1958 में इस पुरस्कार से सम्मानित किया गया था।

* उन्होंने न्यूक्लिक एसिड में आधार अनुक्रमों के निर्धारण के लिए 1980 में पॉल बर्ग और वाल्टर गिल्बर्ट के साथ पुरस्कार साझा किया।

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.

सी.एन.जी., संपीड़्य प्राकृतिक गैस को प्रदर्शित करता है। प्राकृतिक गैस मुख्य रूप से मीथेन होती है और कई लोगों द्वारा अपने घरों में खाना बनाने और ऊष्मा प्राप्त करने के लिए प्रयोग किया जाती है। पेट्रोल और डीजल की तरह यह एक जीवाश्म है।



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