## 7 January 2021 Evening Shift

1. The ranking of India in the Global Innovation Index 2020 is:
A. 58
B. 48
C. 66
D. 84

Ans: B
2. Which of the following is a Maharatna PSU?
A. BSNL
B. BHEL
C. HAL
D. BCCL

Ans: B
3. Pick the odd pair of words from the below options
A. Steadfast : irresolute
B. Monotonous : exciting
C. Stringent : flexible
D. Docile : submissive

Ans: D
4. Select the number that can replace the question mark (?) in the following equation.
$12+8-5 \times \frac{1}{2} \times 12-\{45 \div(34$
-19) $\}=$ ?
A. -25
B. 13
C. -13
D. -10

Ans: C
5. What is the area of the compound shape?

A. 135 square units
B. 21 units
C. 114 units
D. 114 square units

Ans: A
6. Which of the following states lie along the border of Pakistan?
(a) Gujarat
(b) Punjab
(c) Rajasthan
(d) Haryana
A. b, c and d
B. $a, b$ and $c$
C. $a, b$ and d
D. $d, c$ and $a$

Ans: B
7. The fractions $\frac{1}{3}, \frac{4}{7}, \frac{2}{5}$ written in ascending order are:
A. $\frac{4}{7}, \frac{1}{3}, \frac{2}{5}$
B. $\frac{2}{5}, \frac{4}{7}, \frac{1}{3}$
C. $\frac{1}{3}, \frac{2}{5}, \frac{4}{7}$
D. All the fractions are equivalent fractions.
Ans: C
8. Ali can complete a piece of work in 8 days. Balvinder can complete

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the same work in 10 days. In order to complete the work in 4 days, they asked Chander to join them and were able to finish the work in time. In how many days can Chander alone finish the work?
A. 14 days
B. 40 days
C. 12 days
D. 20 days

Ans: B
9. Which of the following devices is used to measure relatively high temperatures, such as are encountered in furnaces?
A. Ammeter
B. Fluxmeter
C. Pyrometer
D. Bolometer

Ans: C
10. Read the following information carefully and answer the questions that follow:
A word-number arrangement machine, when given input as set of words and numbers, rearranges them following a particular rule and generates a stepwise output until the rearrangement is complete following that rule.
Following is an illustration of the input and steps of rearrangement until the last step.
Input: Tokyo 7 Rio @ 5 Salva We Step 1: Tokyo 7 Rio @ We 5 Salva Step 2: Tokyo 7 Rio We @ 5 Salva Step 3:7 Rio We @ 5 Salva Tokyo Step 4: Rio 7 We @ 5 Salva Tokyo In addition, step 4 is the last step. For the input, "When \% SSR 2 meet shall you", What is Step 2?
A. SSR 2 When \% you meet shall
B. SSR When \% you 2 meet shall
C. When \% SSR 2 you meet shall
D. When \% SSR you 2 meet shall Ans: D
11. A Two statements are followed by two given conclusions. Choose the correct option considering the statement to be true irrespective of the commonly known facts.
Statement 1: Only cows are mammals.
Statement 2: No scientists are mammals
Conclusion 1: Some cows are scientists.
Conclusion 2: Some scientists are mammals.
A. Only conclusion 2 follows
B. Both conclusion 1 and conclusion 2 follow
C. Only conclusion 1 follows
D. Neither conclusion 1 nor conclusion 2 follow
Ans: D
12. $3+2 \sqrt{5}$ is:
A. a natural number
B. a rational number
C. an irrational number
D. a complex number

Ans: C
13. What is URL?
A. Address of the web page displayed on the internet
B. A web browser
C. A computer software
D. Searching engine

Ans: A
14. If one substitutes @ with either "+" or "*" (multiplication), in the


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expression 1@2@3@4@5@6, what is the maximum value that can be derived assuming that the correct order of mathematical operations are followed.
A. 720
B. 732
C. 612
D. 721

Ans: D
15. In any triangle $A B C, a+b+c$ $=2 \mathrm{~s}$ with usual notation, then $\sin _{๕}^{\circledast} \frac{æ A}{2} \frac{\ddot{\partial}}{\dot{\dot{\varnothing}}}=$
A. $\sqrt{\frac{(s-c)(s-a)}{a c}}$
B. $\sqrt{\frac{(s-b)(s-c)}{b c}}$
C. $\sqrt{\frac{(s-b)(s-c)}{s(s-a)}}$
D. $\sqrt{\frac{s(s-a)}{b c}}$

Ans: B
16. Looking at the following figure, where angle $B$ and $D$ are ( $7 x-$ $30)^{\circ}$ and $5 x^{\circ}$ respectively, we can say that the value of $x$ is:

A. $75^{\circ}$
B. $15^{\circ}$
C. $65^{\circ}$
D. $105^{\circ}$

Ans: B
17. The selling price of 9 articles is equal to the cost price of 15 articles. In this transaction there is
a:
A. gain of $66.6 \%$ nearly
B. loss of $40 \%$
C. loss of $66.6 \%$ nearly
D. gain of $40 \%$

Ans: A
18. Who presented the Interim Union Budget on 1 February 2019?
A. Manmohan Singh
B. Piyush Goyal
C. Shiv Pratap Shukla
D. Arun Jaitley

Ans: B
19. The $\qquad$ were the first to discover a sea-route to India.
A. Portuguese
B. French
C. English
D. Dutch

Ans: A
20. The total number of articles that were present originally in the Indian Constitution during its implementation is:
A. 396
B. 392
C. 391
D. 395

Ans: D
21. Which of the following projects is being implemented by C-DAC, Pune?
A. Project BHARATMALA
B. Project SATH-E
C. Project JATAN
D. Project Zojila


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## Ans: A

22. Decimal expansion of $\frac{109}{100}$ is:
A. $1+\frac{9}{10}$
B. $10+\frac{9}{100}$
C. $10+\frac{0}{10}+\frac{9}{100}$
D. $100+9+\frac{0}{100}$

Ans: C
23. Let $f(x)=x^{2}$, in $R$, then the range of $f$ will be:
A. negative real numbers
B. non negative numbers
C. positive real numbers
D. integers

Ans: C
24. In which year was the Setu Bharatam Programme launched?
A. 2016
B. 2017
C. 2013
D. 2018

Ans: A
25. Who of the following is one of the nine gems of Chandragupta II?
A. Vishakhadatta
B. Brahmagupta
C. Moggallana
D. Varahamihira

Ans: D
26. If the mean is 25 and the standard deviation is 5 then the coefficient of variation is:
A. $20 \%$
B. $48 \%$
C. $60 \%$
D. $27 \%$

Ans: A
27. The first island to operate seaplane service is:
A. Andaman and Nicobar Island
B. Diu
C. Neil Island
D. Majuli

Ans: A
28. Select the number from among the given options that can replace the question mark (?) in the following series.
1, 5, 29, 2
A. 196
B. 259
C. 256
D. 324

Ans: B
29. Amit alone can complete a piece of work in 15 days and Balbir alone can do the same work in 10 days. If Amit alone works for 3 days after which Balbir joins him, then the work will be finished in how many days?
A. $4 \frac{4}{5}$ days
B. $\frac{1}{6}$ days
C. $\frac{4}{5}$ days
D. $7 \frac{4}{5}$ days

Ans: A
30. Assuming that the given statement is true; find out which of the four alternative (s) is definitely true.
Statement: No newspaper is read by an illiterate.

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1. All newspapers that are read, are read by post graduates.
2. Some newspapers that are read, are read by post graduates.
3. Some newspapers are not read by illiterates.
4. No illiterate ever reads a newspaper.
A. Only 1 \& 2
B. Only 3 \& 4
C. Only 1
D. Only 2

Ans: B
31. How many ministers can be included in the Council of Ministers of the Union?
A. As many as wished by the Prime Minister of India
B. Fifteen percent of the total number of members of the House of People
C. Ten to fifteen percent of the total number of members of the House of People
D. Fifty percent of the total number of members of the House of People Ans: B
32. India's first railway university is located at:
A. Thane, Mumbai
B. Vadodara, Gujrat
C. Varanasi, Uttar Pradesh
D. Raurkela, Orissa

Ans: B
33. Which of the numbers given below would come next in the following series of numbers? 1, 9, 25, 49, $\qquad$ ـ.
A. 16
B. 81
C. 64


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38. A train is travelling 50\% faster than a bus. Both start from Karnal at the same time and reach Panipat, which is 75 km from Karnal at the same time. On the way however, the train stopped at a station for about 12.5 minutes. The speed of the bus is:
A. $100 \mathrm{~km} / \mathrm{h}$
B. $120 \mathrm{~km} / \mathrm{h}$
C. $110 \mathrm{~km} / \mathrm{h}$
D. $130 \mathrm{~km} / \mathrm{h}$

Ans: B
39. The inter-governmental-treatybased organisation having its headquarters in India is:
A. OECD
B. ISA
C. NATO
D. ATS

Ans: B
40. The nearest Spiral galaxy to Milky way is:
A. Sun flower galaxy
B. Andromeda galaxy
C. Pinwheel galaxy
D. Dwarf galaxy

Ans: B
41. Simplify the following equation:

$$
\begin{aligned}
& {\underset{8}{8}}_{4}^{3} \frac{3}{4}-3 \frac{1}{3} \frac{\ddot{\dot{\phi}}}{\dot{\dot{x}}} \div \frac{23}{84}-\frac{3 \ddot{\partial}}{5} \dot{\dot{\phi}}+\frac{3}{5} \times \frac{5}{7} \times \\
& \frac{7}{9}
\end{aligned}
$$

A. $\frac{85}{29}$
B. $\frac{452}{135}$
C. $\frac{452}{135}$
D. $\frac{131}{240}$

Ans: A
42. Which of the two colours of spectrum forms the extremes?
A. Violet and Red
B. Yellow and Orange
C. Blue and Green
D. Red and Orange

Ans: A
43. Moving along a circular path,

Ansh takes 18 minutes to complete one round and Siddhi takes 12 minutes for the same. If they start from the same point and at the same time, then after what time they will meet again at the starting point?
A. 6 minutes
B. 1.5 minute
C. 36 minutes
D. 216 minutes

Ans: C
44. The earliest deciphered epigraphy of Ashoka's inscription in India was written in which script?
A. Harappan
B. Kharoshthi
C. Devnagri
D. Brahmi

Ans: D
45. A statement is followed by two assumptions. You have to consider the statement and the following assumptions and decide the correct option.
Statement: "If you are a computer engineer, we want you as our senior consultant" - an advertisement by company XYZ.


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Assumption 1: Engineers are expected to be better performers by company XYZ.
Assumption 2: The company XYZ needs a senior consultant.
A. Both Assumption 1 \& Assumption 2 are Implicit
B. Only Assumption 2 is Implicit
C. Neither Assumption 1 nor

Assumption 2 are Implicit
D. Only Assumption 1 is Implicit Ans: B
46. Who was the first Chairman of Rajya Sabha?
A. Ganesh Vasudev
B. SV Krishanmoorthy Rao
C. Smt. Violet Alva
D. Dr. Sarvepalli Radhakrishnan

Ans: D
47. Which of the following is an application software?
A. LINUX
B. UNIX
C. macOS
D. Graphics

Ans: D
48. The nobel prize awarding institute, Swedish Academy, is associated with:
A. Peace
B. Literature
C. Medicine
D. Physiology

Ans: B
49. The population of a town increases by $10 \%$ every year. If the present population is 20,000, in the next year it will be:
A. 18,000
B. 2,200
C. 1,800


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D. $\frac{\mathrm{p}}{3}$ only

Ans: B
54. The zoological name of the common housefly is:
A. Triticum Aestivum
B. Fannia
C. Homo Sapiens
D. Musca Domestica

Ans: D
55. The National Rural Health Mission was launched in the year:
A. 2012
B. 2007
C. 2002
D. 2005

Ans: D
56. Which of the following individuals is NOT associated with the musical instrument santoor?
A. Pt. Shiv Kumar Sharma
B. Ustad Amjad Ali Khan
C. Tarun Bhattacharya
D. Bhajan Sopori

Ans: B
57. The quartzite is a $\qquad$ type of rock.
A. sedimentary
B. metamorphic
C. basalt
D. igneous

Ans: B
58. The sides of a triangle are in the ratio $3: 4: 5$ the triangle is:
A. right angled
B. obtuse angled
C. acute angled
D. either acute angled or right angled
Ans: A
59. Where is Pakhal Wildlife Sanctuary located?
A. Lakhimpur
B. Chandauli
C. Seoni
D. Warangal

Ans: D
69. $\sqrt{8-2 \sqrt{15}}$ is equal to:
A. $3-\sqrt{5}$
B. $\sqrt{5}-\sqrt{3}$
C. $\sqrt{5}+\sqrt{3}$
D. $5-13$
61. The space diagonal of a cube measures $8 \sqrt{3} \mathrm{~cm}$. What is the volume of the cube?
A. $512 \sqrt{3} \mathrm{~cm}^{3}$
B. $1536 \sqrt{3} \mathrm{~cm}^{3}$
C. $512 \mathrm{~cm}^{3}$
D. $1536 \mathrm{~cm}^{3}$

Ans: C
62. Read the following information carefully and answer the questions that follow:
A word-number arrangement machine, when given input as set of words and numbers, rearranges them following a particular rule and generates a stepwise output until the rearrangement is complete following that rule. Following is an illustration of the input and steps of rearrangement until the last step.
Input: Tokyo 7 Rio @ 5 Salva We Step 1: Tokyo 7 Rio @ We 5 Salva Step 2: Tokyo 7 Rio We @ 5 Salva Step 3: 7 Rio @ We 5 Salva Tokyo Step 4: Rio 7 @ We 5 Salva Tokyo

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In addition, step 4 is the last step. For the input, "Let 1 mail \& check me and", What is Step 4?
A. mail 1 \& and check me Let
B. and check me Let mail 1 \&
C. mail 1 me Let \& and check
D. 1 \& and check me Let mail

Ans: A
63. Anuj plants 5,625 plants in his garden in such a way that the number of rows and the number of plants in each row remains the same. The number of plants in each row will be:
A. 75
B. 2812
C. 11250
D. 2813

Ans: A
64. In a certain code, MAD $=56$, CAT $=80$, then DEN $=$ $\qquad$ ?
A. 29
B. 126
C. 100
D. 208

Ans: B
65. The Indian space programme is said to have begun in $\qquad$ with the setting up of INCOSPAR by the Indian government.
A. 1968
B. 1970
C. 1962
D. 1960

Ans: C
66. Who among the following is NOT a nationalist extremist leader of Indian national Congress?
A. Sri Aurobindo Ghosh
B. Bal Gangadhar Tilak
C. Bipin Chandra Pal
D. Surendra Nath Banerjee

Ans: D
67. At which place in Haryana is the Government of India developing a nuclear power plant?
A. Gorakhpur
B. Palwal
C. Ballabgarh
D. Kalka

Ans: A
68. A certain sum of money was divided among three friends: Rajeev, Kewal and Amit in the ratio of $2: 3: 7$. If Amit's share is Rs. 15 more than that of Kewal, then what is the sum of money which was divided:
A. Rs. 180
B. Rs. 45
C. Rs. 57
D. Rs. 27

Ans: B
69. To gain $25 \%$ after announcing a discount of $10 \%$, the shopkeeper must mark the price of the article with cost price Rs. 360 as:
A. Rs. 500
B. Rs. 486
C. Rs. 450
D. Rs. 460

Ans: A
70. Which of the following numbers has a terminating decimal?
$\frac{15}{600}, \frac{29}{343}, \frac{7}{2^{2} \cdot 7^{2}}, \frac{77}{210}$
A. $\frac{77}{210}$
B. $\frac{29}{343}$
C. $\frac{15}{600}$
D. $\frac{7}{2^{2} \cdot 7^{2}}$

Ans: C
71. Since the HCF of $(48,144)=$ 48 , therefore the LCM of $(48,144)$ = ?
A. 48
B. $48 \times 144$
C. 144
D. 3

Ans: C
72. There are six toys arranged one above the other in form of a stack, the lowermost is numbered 1 and the toy above it as 2 and so on. Each toy is of a different colour Purple, Pink, White, Yellow, Red and Grey. Purple toy is at the even position but not at the top. Red toy is not adjacent to white or yellow toy. Grey toy is at the 5th position. There are two toys between pink and white toy where pink toy is above the white one. White toy is not at the bottommost position. At which position is the Pink toy?
A. 3rd
B. 6th
C. 2nd
D. 4th

Ans: B
73. By selling a watch for a certain amount, Deepika suffered a loss of $10 \%$. By selling the same watch for Rs. 140 more, she would have gained 4\%. What was the cost price of the watch?
A. Rs. 1140
B. Rs. 1000
C. Rs. 860
D. Rs. 760

Ans: B
74. Pragya invited males and females to her birthday party in the ratio of $7: 6$. If the number of males in the party were 56, then the total number of guests attending the party were:
A. 48
B. 104
C. 108
D. 112

Ans: B
75. Who won gold medal in the 25 m Pistol Category at Asian Games 2018?
A. Tessa Vertue
B. Satyajit Prasad
C. Rahi Sarnobat
D. Bobby Aloysius

Ans: C
76. There is a group of six persons; $A, B, C, D, E$ and $F$ in a room. In the group, there are two married couples. $B$ is Italian and is the mother of $C$. $F$ is the grandmother of $C$. $F$ is from Canada. $D$ is the grandfather of $E$ and $D$ is from Australia. There is one Italian, one Canadian, one Australian, one French and two Irish people in the group. The French person is a male and married. Nobody who is a grandchild is married. What is the nationality of $A$ and who is his wife?
A. French, $F$
B. French, B
C. Irish, $F$

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D. Italian, B

Ans: B
77. Who is the Attorney General of India as of October 2020? Ans X
A. Rajnish Kumar
B. K.K. Venugopal
C. KV Chowdhary
D. V K Sharma

Ans: B
78. How many countries are the members of OPEC as of November 2020?
A. 20
B. 13
C. 28
D. 18

Ans: B
79. Who is considered as the father of geography?
A. Ptolemy
B. Aristotle
C. Thales
D. Eratosthenes

Ans: D
80. The smallest unit of the life capable of independent existence is:
A. Protoplasm
B. Vacuoles
C. Cytoplasm
D. Cell

Ans: D
81. Find the missing term in given alphanumeric series: A2B, C12D, E30F, $\qquad$ I90J.
A. G 64 H
B. G 48 H
C. G 56 H
D. G 49 H

Ans: C
82. Select the option that is related to the third term in the same way as the second term is related to the first term.
China : Beijing :: Brazil : $\qquad$
A. Brasilia
B. Shanghai
C. Rio De Janeiro
D. Buenos Aires

Ans: A
83. As of October 2020, who is the President of Nepal?
A. Madhav Kumar
B. Bidya Devi Bhandari
C. KP Oli
D. Nanda Kishor Pun

Ans: B
84. The length of each side of a square whose diagonals are 10 cm each, is:
A. $5 \sqrt{2} \mathrm{~cm}$
B. 5 cm
C. $10 \sqrt{2} \mathrm{~cm}$
D. 7 cm

Ans: A
85. If a pie chart is drawn based on the data given below, what will be the central angle for food?

| No. of families | Item of expenditure |
| :--- | :--- |
| 150 | Education |
| 400 | Food |
| 40 | Rent |
| 250 | Electricity |
| 160 | Miscellaneous |

A. $90^{\circ}$
B. $208^{\circ}$
C. $144^{\circ}$
D. $150^{\circ}$

Ans: C

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86. The pie-chart shows the percentage of inter-state sports competitions in different years from 2012 to 2018.
Considering the total number of inter-state sports competitions to be 200, find the difference in the number of inter-state sports competitions in 2015 and that in 2016.

Percentage of Inter-state sports Competitions

A. 26
B. 28
C. 24
D. 22

Ans: C
87. The line graph shows the number of students who appeared in XYZ exam from various states during the period 2012-2018. What is the average number of students who appeared in the XYZ exam in the year 2012 from all the states together?

A. 275
B. 270
C. 285
D. 280

Ans: A
88. The pie-chart shows the percentage of inter-state sports competitions in different years from 2012 to 2018.Considering the total number of inter-state sports competitions to be 200, find the total number of inter-state sports competitions held in 2012, 2013, 2017 and 2018.

A. 148
B. 154
C. 152
D. 168

Ans: C

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89. The Table below shows the ratio of manufacturing of Car A to the manufacturing of Car B by the same company from 2012-2016. The Line Graph shows the manufacturing (in thousands) of Car A, from 2012-2016.
What is the ratio of number of Car B manufactured in 2012 to the number of Car A manufactured in 2014?

| Year | Production Ratio <br> of $A$ to $B$ |
| :---: | :---: |
| 2012 | $17: 16$ |
| 2013 | $8: 7$ |
| 2014 | $9: 10$ |
| 2015 | $18: 19$ |
| 2016 | $7: 6$ |


A. $80: 61$
B. $80: 63$
C. $79: 61$
D. $79: 63$

Ans: B
90. There are six toys arranged one above the other in form of a stack, the lowermost is numbered 1 and the toy above it as 2 and so on. Each toy is of a different colour Purple, Pink, White, Yellow, Red and Grey. Purple toy is at the even position but not at the top. Red toy is not adjacent to white or yellow toy. Grey toy is at the 5th position. There are two toys between pink and white toy where pink toy is above the white one. White toy is not at the bottommost position. Which toy among the following options is at an odd position?
A. White toy
B. Pink toy
C. Yellow toy
D. Purple toy

Ans: A
91. Given below is a statement followed by two courses of actions. Assuming everything in the statement to be true, irrespective of the commonly known facts, decide which of the two suggested course(s) of action logically follow for pursuing?
Statement: There is a shortage of water in Delhi during summers.
Course of action 1: There should be more water conservation projects initiated by the government of Delhi.
Course of action 2: The government should encourage rain water harvesting in all new and existing residential complexes.
A. Both course of action 1 and course of action 2 follow.
B. Only course of action 1 follows
C. Only course of action 2 follows
D. Neither course of action I nor course of action 2 follows
Ans: A
92. If $a P b$ implies $a+b, a S S b$ implies a-b, aMb implies a*b and $a \mathrm{ab}$ implies $\mathrm{a}+\mathrm{b}$; Find the value of 5P6S3M4D8
A. 10
B. 8.5
C. 9.5
D. 8

Ans: C
93. Choose the odd option among the following.
A. $\frac{5}{10}$
B. $\frac{1}{4}$

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C. $\frac{2}{3}$
D. $\frac{11}{13}$

Ans: A
94. In a class of 47 students, Anurag's roll number is eighteenth from the end. What is his roll number from the beginning?
A. 30
B. 29
C. 27
D. 28

Ans: A
95. Select the option that is related to the third term in the same way as the second term is related to the first term.
Ten : Decade :: Thousand : $\qquad$
A. Century
B. Millennium
C. Triennium
D. Lustrum

Ans: B
96. A statement is followed by two conclusions. Choose the correct option considering the statement to be true irrespective of the commonly known facts.
Statement:
Don't throw garbage here. If you violate this non-littering sign, a fine of Rs. 5000 will be imposed.
Conclusion
1: The same fine is charged for littering offence everywhere.
2: This warning is written at every public place or non-littering zone.
A. Neither conclusion 1 nor conclusion 2 follow
B. Only conclusion 1 follows
C. Only conclusion 2 follows
D. Both conclusion 1 and conclusion 2 follow
Ans: A
97. Choose the conclusion (s) which logically follow from the given statement, disregarding commonly known facts.
Statement : No country is free from terrorism these days.
Conclusion A: it has become impossible for countries to control terrorism these days.
Conclusion B: The countries and their people in general have become lazy.
A. Only Conclusion B follows
B. Both Conclusions A \& B follow
C. Only Conclusion A follows
D. Neither Conclusion A nor conclusion B follow
Ans: C
98. In which of the given options, is the letters skipped between adjacent letters in the order 1, 2, 3.
A. EFJN
B. FHKO
C. ACDE
D. FHLP

Ans: B
99. Pradeep says, "Vishal's mother is the only daughter of my mother". How is Pradeep related to Vishal?
A. Brother
B. Maternal uncle
C. Father
D. Grandfather

Ans: B
100. Four elements have been listed, out of which three are alike

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in some manner and one is different. Select the odd one.
A. Sodium
B. Helium
C. Neon
D. Argon

Ans: A



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