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SBI PO Pre

Read the following instructions carefully before you begin to attempt the questions.

INSTRUCTIONS TO CANDIDATE

- (1) This booklet contains **100 Questions** in all comprising the following **Three** parts.
Part-(I) : Reasoning Aptitude (30 Questions)
Part-(II) : Quantitative Aptitude (30 Questions)
Part-(III) : English Language (40 Questions)
- (2) All the questions are compulsory and carry equal marks.
- (3) Before you start to attempt the questions, you must explore this booklet and ensure that it contains all the pages and find that no page is missing or replaced. If you find any flaw in this booklet, you must get it replaced immediately.
- (4) **Each question carries negative marking also as 0.25 mark will be deducted for each wrong answer.**
- (5) You will be supplied the Answer-sheet separately by the invigilator. You must complete the details of Name, Roll number, Test name/Id and name of the examination on the Answer-Sheet carefully before you actually start attempting the questions. You must also put your signature on the Answer-Sheet at the prescribed place. These instructions must be fully complied with, failing which, your Answer-Sheet will not be evaluated and you will be awarded 'ZERO' mark.
- (6) Answer must be shown by completely blackening the corresponding circles on the Answer-Sheet against the relevant question number by **Black/Blue ball pen** only.
- (7) A machine will read the coded information in the OMR Answer-Sheet. In case the information is incompletely/different from the information given in the application form, the candidature of such candidate will be treated as cancelled.
- (8) The Answer-Sheet must be handed over to the Invigilator before you leave the Examination Hall.
- (9) Failure to comply with any of the above Instructions will make a candidate liable to such action/penalty as may be deemed fit.
- (10) Answer the questions as quickly and as carefully as you can. Some questions may be difficult and others easy. Do not spend too much time on any question.
- (11) Mobile phones and wireless communication device are completely banned in the examination halls/rooms. Candidates are advised not to keep mobile phones/any other wireless communication devices with them even switching it off, in their own interest. Failing to comply with this provision will be considered as using unfair means in the examination and action will be taken against them including cancellation of their candidature.
- (12) No rough work is to be done on the Answer-Sheet.
- (13) No candidate can leave the examination hall before completion of the exam.

NAME OF CANDIDATE:.....

DATE :..... **CENTRE CODE :**.....

ROLL No

Maximum Marks : 100

Total Questions : 100

Time Allowed : 60 Min.

DO NOT OPEN THIS TEST BOOKLET UNTIL YOU ARE TOLD TO DO SO

SPP-909214247-E

Reasoning Aptitude

1. Four of the following five letter clusters are alike in certain manner and one is different. Choose the one which is different.
- (A) JCXK (B) VNMW
(C) CLOD (D) RGTS
(E) AOKB

Directions [02 – 06]: Answer the following question based on the information given below.

There are two parallel rows, row A and row B such that row A is to the north of row B. Seven persons- T, U, V, W, X, Y, and Z, sit along row A. Seven persons- L, M, N, O, P, Q, and R, sit along row B. The distance between two adjacent persons is same and the persons in row A sit opposite to the persons in row B. Also, the distance between the two rows is same.

No person sits to the right of R. N sits third to the left of R. One person sits between N and P. W sits opposite to P. Three persons sit between Y and W. L sits opposite to T. T does not sit adjacent to Y. U sits immediate right of V. Q sits opposite to U. M sits to the right of O. X does not at any of the extreme end seat.

2. How many persons sit to the right of X?
(A) Two (B) Three
(C) Four (D) Five
(E) None of the above
3. The one, who sits opposite to R, sits ____ to the left of V.
(A) Second (B) Third
(C) Fourth (D) Immediate
(E) None of the above
4. Who among the following sits opposite to N?
(A) V (B) X
(C) Y (D) Z
(E) Cannot be determined
5. ____ sits opposite to the one, who sits third to the left of W.
(A) N (B) R
(C) M (D) O
(E) Cannot be determined
6. Four of the following five are alike in a certain manner and one is different. Choose the one which is different.
(A) W (B) X
(C) P (D) L
(E) O

Directions (07 – 10): Ten persons:- P, Q, R, S, T, U, V, W, X and Y are working in a construction company at different designations but not necessarily in the same order. The designations in decreasing orders are Project Manager, Senior Engineer, Architect, Junior Engineer, Iron worker, Tradesman, Blasting Labour, Power tools Labour, Hand tools Labour and Air tools Labour such that Project Manager is the seniormost position and Air tools Labour is the juniormost position.

R is immediate junior to X. Only three persons are junior to U. Neither P nor R is the juniormost person. Not more than 3 persons are junior to P and T. Neither V nor X is the seniormost person. The number of persons senior to V is same as the number of persons junior to W. Q is immediate junior to V but immediate senior to S.

7. Who among the following is the seniormost person?
(A) Q (B) V
(C) R (D) W
(E) Y
8. How many persons are junior to P?
(A) 2 (B) 3
(C) 4 (D) More than 4
(E) None
9. Which of the following combination is true?
i) T - Air tools Labour ii) S - Tradesman
iii) Q - Architect
(A) Only i and ii (B) Only ii and iii
(C) Only i and iii (D) All are true
(E) None is true
10. S, whose designation is _____, is immediate senior to _____, whose designation is _____.
(A) Project Manager, U, Tradesman
(B) Junior Engineer, X, Iron worker
(C) Blasting Labour, P, Air tools Labour
(D) Senior Engineer, W, Power tools Labour
(E) Architect, T, Junior Engineer
11. Each odd digit in the number 741358 is substituted by the next higher digit and each even digit is substituted by the previous lower digit and the digits so obtained are rearranged in ascending order, which of the following will be the third digit from the left end after the rearrangement?
(A) 1 (B) 7
(C) 8 (D) 2
(E) 4
12. How many meaningful four-letter words can be formed using the 2nd, 4th, 6th, 7th, and 8th letter of the word 'STACKING', when taken from the left end?
(A) None (B) One
(C) Two (D) Three
(E) Four
13. If a meaningful word can be formed using the 4th, 6th and 7th letters of the word "MERCURY" from the left end, and then what is the third letter from the right end of the word formed? If no such word can be formed, then mark O as your answer while if more than one such word can be formed, then mark P as your answer.
(A) P (B) C
(C) O (D) R
(E) Y

Directions (14 – 16): Study the given information carefully and answer the questions below it.

There are nine members of three generations living in a family. Z is the mother of H, who is the brother of W. I is the daughter of W, who is the wife of G. M is the spouse of T, who is the brother of H. V is the son of M. J is the spouse of Z.

14. How is V related to H?
(A) Father (B) Nephew
(C) Brother (D) Grandson
(E) Son-in-law
15. How is J related to I?
(A) Mother (B) Brother-in-law
(C) Grandfather (D) Nephew
(E) Fathet-in-law
16. How many male members are there in the family?
(A) Eight (B) Seven
(C) Six (D) Five
(E) Four
17. In a certain code language, 'SLING' is coded as 'VKLMJ' and 'LOAD' is coded as 'ONDC'. How is 'TABLE' coded as in the same language?
(A) EHKWZ (B) WEKHZ
(C) XAFLI (D) WZEKH
(E) AHIFL
18. In the following question, three statements are given and two conclusions are given below these statements. Choose the option which shows the conclusions which logically follow from the given statements, disregarding commonly known facts.
Statements: Only a few switches are levers.
All levers are buttons.
Only a few buttons are keys.
Conclusions: I. All switches are keys
II. Some buttons are not keys.
(A) Only I follows (B) Only II follows
(C) Either I or II follows (D) Both I and II follow
(E) Neither I nor II follow
19. Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statements.
Statement: Only Chair is Table
No Sofa is Table
All Sofa is Mat
Conclusion: I. Some Chair is Mat
II. No Mat is Chair
(A) Only Conclusion I follows
(B) Only Conclusion II follows
(C) Neither Conclusion I nor II follows
(D) Either Conclusion I or II follows
(E) Both Conclusions I and II follow
20. Which of the following symbols should replace the question marks (?) in the given expression in order to make the expressions ' $Q \geq D$ ' as well as ' $X < C$ ' definitely true?
 $T < G < C = R \geq A$ (?) $X < Q = P$ (?) $D > V$
(A) $>, \geq$ (B) $<, <$
(C) $>, \leq$ (D) $<, \leq$
(E) None of the above

Directions [21-25]: Six persons- H, I, J, K, L and M seated around a hexagonal table facing the centre. Each of them likes watch of different brands viz., Titan, Rolex, Sonata, Maxima, Fossil and Citizen. All the information is not necessarily in the same order.

Only one person sits between I and L, who likes Sonata watch. M, who likes Rolex watch, sits third to the right of K. The one who likes Titan watch sits second to the left of M. K sits adjacent to L. The one who likes Fossil watch sits second to the right of H. J does not like Maxima watch. H does not sit adjacent to I.

21. J likes _____ watch.
(A) Rolex (B) Fossil
(C) Titan (D) Sonata
(E) Citizen
22. How many persons sit between I and the one who likes Maxima watch when counted from the right of I?
(A) One (B) Two
(C) Three (D) Four
(E) None
23. Which of the following statement is true?
(A) I likes Fossil watch.
(B) H sits adjacent to L and K.
(C) M sits immediate right of J.
(D) K likes Maxima watch
(E) All statements are true
24. If L is related to J in the same way K is related to _____.
(A) M (B) I
(C) J (D) L
(E) H
25. M sits third to the left of _____, who likes _____ watch.
(A) K, Fossil (B) I, Citizen
(C) J, Titan (D) H, Maxima
(E) I, Sonata

Directions (26 – 30): Nine persons live in a five-storeyed building such that the bottommost floor is number 1 above that number 2 and so on. Each of the floors consists of 2 flats such as flat-X and flat-Y. Flat X is to the west of Flat Y. Flat-X of floor-2 is immediately above flat-X of floor-1 and immediately below flat-X of floor-3 and in the same way, flat-Y of floor-2 is immediately above flat-Y of floor-1 and immediately below flat-Y of floor-3 and so on. One of the flats is vacant.

Note:- A lives immediately west of B means both of them live on the same floor. If A lives immediately above B means A either lives in Flat X or Flat Y on the immediately above B's floor.

T lives on a floor immediately above Z's floor. Neither E nor M lives in flat X. Only one floor is between H and M, who lives immediately below E. Flat Y is not vacant on any of the floor. Two floors are between H and K, who lives on the prime number floor above H. G lives immediately to the east of H. O lives to the east of J but not on floor 3.

26. Who among the following lives in flat X of floor 1?
(A) E (B) J
(C) O (D) T
(E) M
27. How many persons live below the flat of M?
(A) 3 (B) 4
(C) 5 (D) 6
(E) None
28. If K is related to E in the same way T is related to _____.
(A) H (B) O
(C) J (D) Z
(E) M
29. Which of the following statements is/are correct?
(A) J lives on the bottommost floor.
(B) Z lives with O on the same floor.
(C) Flat X of the 1st floor is vacant.
(D) T lives immediately east of J.
(E) All statements are true
30. O lives immediately below _____, who lives with _____ on floor _____.
(A) T, Z, 4 (B) K, E, 5
(C) J, M, 3 (D) G, H, 2
(E) E, Z, 1

Quantitative Aptitude

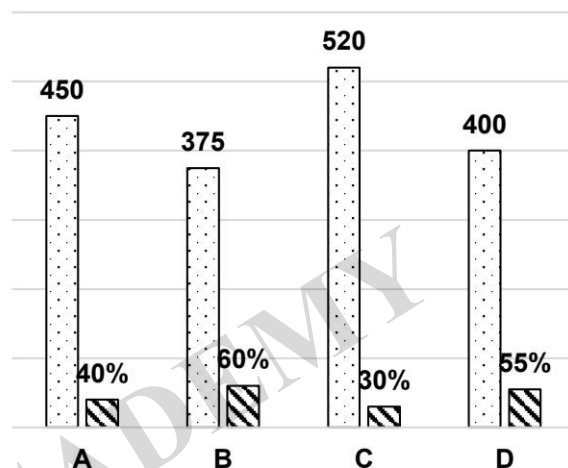
31. A circular field has an area of 1386 m^2 . A 3-metre-tall compound wall is to be built around the entire border of the circular field. Find the surface area of one side of the wall if the thickness of the wall is negligible.
(A) 246 m^2 (B) 420 m^2
(C) 396 m^2 (D) 450 m^2
(E) 231 m^2
32. The average of 15 numbers is 270. The average of 5 numbers is 238, average of next 3 numbers is 230 and average of next 4 numbers is 350. Find the sum of rest three numbers.
(A) 680 (B) 810
(C) 770 (D) 920
(E) 875
33. There are two numbers K and M such that when 24 times of K is added to 192, then result is equal to 336, and sum of K and M is 28, then what is the difference between K and M?
(A) 12 (B) 36
(C) 14 (D) 18
(E) 20
34. Four friends P, Q, R and S got a reward in form of cash. P got 25% of the cash. Of the remaining cash, Q got $\frac{8}{15}$ Of the remaining cash, R got $\frac{1}{5}$ of total cash. S got the remaining ₹300. What is the difference (in ₹) between the amount got by P and R?
(A) ₹100 (B) ₹250
(C) ₹300 (D) ₹450
(E) ₹500
35. In the given question, two equations I and II are given. You have to solve both the equations to establish the correct relation between x and y and choose the correct option.
I. $2x^2 - 21x + 54 = 0$ II. $2y^2 - 19y + 44 = 0$
(A) $x > y$ (B) $x < y$
(C) $x = y$ or the relationship cannot be established
(D) $x \geq y$ (E) $x \leq y$
36. In the following questions two equations numbered I and II are given. You have to solve both the equations and choose the correct option.
I. $x^2 + 24x + 95 = 0$ II. $y^2 + 27y + 92 = 0$
(A) $x < y$ (B) $x > y$
(C) $x \leq y$ (D) $x \geq y$
(E) $x = y$ or relationship cannot be established
37. A seller sold an article after allowing two successive discounts of 15% each. If instead he had allowed a single discount of 30%, then the profit earned would've been ₹90 less. Find the marked price of the article.
(A) ₹5,000 (B) ₹4,500
(C) ₹4,000 (D) ₹6,000
(E) ₹3,000
38. What approximate value should come in place of (?) in the expression given below?
 $109\% \text{ of } 749 + ? \times (3.99)^{1/2} = (29.03)^2$
(A) 8 (B) 2
(C) 20 (D) 16
(E) 24
39. What approximate value should come in place of question mark?
 $76.06 \div 19.09 + (21.01 \times 17.79) = 37.99 \times 9.98 + ?$
(A) 13 (B) 9
(C) 2 (D) 35
(E) 19
40. What approximate value should come in place of (?) in the expression given below?
 $39.77\% \text{ of } 40.08 - ? + 96.22 = (11.08)^2$
(A) 3 (B) -15
(C) 9 (D) -9
(E) -6
41. Find the missing term (?) in the following series-
234, 245, 259, 276, ?, 319
(A) 284 (B) 290
(C) 296 (D) 302
(E) 311
42. Find the next term in the series.
724, 506, 336, 208, 116, ?
(A) 66 (B) 54
(C) 63 (D) 62
(E) 60
43. Find the wrong term in the following series.
122, 124, 127, 143, 207, 463
(A) 122 (B) 124
(C) 127 (D) 143
(E) 207

44. The simple interest received on investing ₹'Y' for 8 years at simple interest of 4.5% p.a. is ₹2,700. Find the total amount received on investing ₹(Y + 500) for 2 years at compound interest of 10% p.a., compounded annually.
(A) ₹9,680 (B) ₹8,712
(C) ₹10,164 (D) ₹12,100
(E) ₹8,470
45. A boat can cover (T + 34) km in upstream and it can cover (T + 41) km in downstream in a total of 11 hours. While it can cover 45 km in still water in 3 hours and speed of the stream is 2 km/h, then what is the value of T?
(A) 44 (B) 46
(C) 45 (D) 48
(E) 49
46. To cover 900 km, a car travelling at its usual speed takes 1.5 hours more than the expected time. If the speed of the car had been 25% more, than it would have taken 1 hour less than the expected time taken. If the car travelled 8 km/h faster than usual, the car would take how much time more/less than the expected time?
(A) 0.5 hours less (B) 0.25 hours more
(C) 20 minutes more (D) 0.5 hours more
(E) 20 minutes less
47. Two equal capacity containers A and B are completely filled with the mixture of juice and water. Ratio of juice to water in containers A and B are 3: 1 and 5: 6 respectively. If both the containers are emptied in a bigger container, then the ratio of juice to water in the bigger container becomes -
(A) 53: 35 (B) 49: 27
(C) 49: 37 (D) 53: 29
(E) 55: 23
48. A and B started a business with initial investment ₹5000 and ₹4000. After sometimes B withdraws 25% of what he invested initially and another person C joins them with ₹7000 and after 3 months from the start A adds ₹2000 more into his capital. If at the end of a year share of B is ₹1850 out of total profit ₹9600. What is the share of C from the profit?
(A) ₹3850 (B) ₹3950
(C) ₹4000 (D) ₹4200
(E) None of these
49. Average salary of 30 workers of a company is ₹5000 and is increased by ₹(y + 500) when the salary of 10 new workers is added. If the average salary of new workers is ₹60y, then the value of 'y' is equal to -
(A) 120 (B) 100
(C) 200 (D) 225
(E) 125
50. Ratio of the present ages of Rahul and Namita is 7:6 respectively. At the time of their marriage, ratio of their ages was 11:9 respectively. After ten years, ratio of their ages will be 19:17 respectively. At the time of birth of their first child, respective ratio of their ages was 13:11. After how many years of their marriage they got their first child?

- (A) 3 (B) 4
(C) 7 (D) 6
(E) None of these

Directions [51-55]: Answer the questions based on the information given below.

The bar graph given below shows the sum of number of petrol cars and electric cars and number of electric cars as percentage of sum of number of petrol cars and electric cars, in 4 different cities.



□ Sum of number of petrol cars and electric cars

■ Number of electric cars as percentage of sum of number of electric cars and petrol cars

51. If the ratio of number of petrol cars and diesel cars, in city 'A' is 9:10, respectively, then find the number of diesel cars in city 'A'.
(A) 240 (B) 360
(C) 300 (D) 280
(E) 270
52. If the average number of electric cars in cities 'C' and 'E' together is 170, then find the number of electric cars in city 'E'.
(A) 210 (B) 154
(C) 224 (D) 184
(E) 176
53. If 45% of the petrol cars in city 'D' are of Mahindra brand, then find the number of petrol cars in city 'D' that are of Mahindra brand.
(A) 81 (B) 96
(C) 72 (D) 90
(E) 108
54. The number of electric cars in city 'B' is how much percent more than the number of electric cars in city 'A'?
(A) 10% (B) 20%
(C) 30% (D) 15%
(E) 25%
55. The ratio of number of petrol cars in cities 'B' and number of petrol cars in city 'F' is 25:34, respectively.

Find the difference between the number of petrol cars in cities 'C' and 'F'.

- (A) 180 (B) 160
(C) 210 (D) 150
(E) 120

Directions [56 – 60]: Read the data carefully and answer the following questions:

Below table shows the number of pages printed by three printers (X, Y, and Z) in four days:

	Average number of pages printed by all three printers	Number of pages printed by printer Z	Number of pages printed by printer Y
Mon	360	360	480
Tue	540	810	270
Wed	240	180	270
Thu	480	360	630

56. The number of pages printed by printer Y on Friday is two-third of the number of pages printed by printer Y in previous day, then how many pages printed by printer Y on Tuesday and Friday together?
(A) 620 (B) 660
(C) 680 (D) 780
(E) 690
57. What is the ratio of number of pages printed by printer Z on Monday to the number of pages printed by printer X on Wednesday?
(A) 5: 6 (B) 4: 5
(C) 2: 3 (D) 4: 3
(E) 6: 7
58. The number of pages printed by printer Y on Monday is what percentage more or less than the number of pages printed by printer Z on Wednesday?
(A) 99.99% (B) 133.33%
(C) 166.66% (D) 103.33%
(E) 116.66%
59. What is the difference between the number of pages printed by printer Z on Tuesday and the number of pages printed by printer X on Thursday?
(A) 360 (B) 240
(C) 180 (D) 300
(E) 400
60. What is the average number of pages printed by printer X on Monday and Tuesday together?
(A) 330 (B) 450
(C) 230 (D) 390
(E) 320

English Language

Directions: (61-65): In the question given below, a set of sentences is given, which when properly sequenced, form a coherent paragraph. Arrange the sentences in the correct sequence, and answer the questions.

P. And sales of liquor and cigarettes together account for over 75 to 80 percent of overall duty free sales.
Q. To make up the revenue loss on account of the new restriction related to duty-free alcohol sale, the aeronautical charges will have to increase, which will have to be borne by airlines and passengers.
R. At most Indian airports, duty-free revenues make up 15 to 20 percent of the total non-aero revenues.
S. It is estimated that the aero charges will go up by at least Rs. 200 crore annually across India, which will have an impact on ticket prices.
T. It may even impact the growth in passenger traffic, which is already extremely subdued.

61. Which of the following would be the SECOND statement after rearrangement?
(A) Q (B) P
(C) R (D) S
(E) T
62. Which of the following would be the FOURTH statement after rearrangement?
(A) Q (B) P
(C) R (D) S
(E) T
63. Which of the following would be the FIRST statement after rearrangement?
(A) Q (B) P
(C) R (D) S
(E) T
64. Which of the following would be the FIFTH statement after rearrangement?
(A) Q (B) P
(C) R (D) S
(E) T
65. Which of the following would be the THIRD statement after rearrangement?
(A) Q (B) P
(C) R (D) S
(E) T
66. In the question below, a sentence is given, four words have been highlighted in bold. Find out if the words are appropriate (grammatically and contextually). Only one word will be inappropriate, mark that as your answer. If all are appropriate, mark "all are correct".
Loan waivers **severely** erode the credit **culture**, with **dire** long-run **consequences** to the banking business.
(A) severely (B) culture
(C) dire (D) consequences
(E) All are correct
67. In the question below, a sentence is given, four words have been highlighted in bold. Find out if the words are appropriate (grammatically and contextually). Only one word will be inappropriate, mark that as your answer. If all are appropriate, mark "all are correct".
Loan waivers **provide** only a **practical** relief to the **indebted** farmers as about half of the institutional borrowing of a cultivator is for non-farm **purposes**.
(A) provide (B) practical
(C) indebted (D) purposes
(E) All are correct

68. In the question below, a sentence is given, four words have been highlighted in bold. Find out if the words are appropriate (grammatically and contextually). Only one word will be inappropriate, mark that as your answer. If all are appropriate, mark "all are correct". Recently a few states have **respond** to farm **distress** by rolling out farm loan waiver schemes as a measure of immediate relief to those farmers who **qualify** certain **criteria**.
(A) respond (B) distress
(C) qualify (D) criteria
(E) All are correct
69. In the question below, a sentence is given, four words have been highlighted in bold. Find out if the words are appropriate (grammatically and contextually). Only one word will be inappropriate, mark that as your answer. If all are appropriate, mark "all are correct". Since the world's **major** central banks came to the global economy's rescue in 2008, they have had more and more tasks **foisted** upon them, even as some **politicians** question their **expansion** role.
(A) major (B) foisted
(C) politicians (D) expansion
(E) All are correct
70. In the question below, a sentence is given, four words have been highlighted in bold. Find out if the words are appropriate (grammatically and contextually). Only one word will be inappropriate, mark that as your answer. If all are appropriate, mark "all are correct". Rising costs, drop in income and increasing **incidence** of **indebtedness** among small and marginal farmers has **manifested** in a **spade** of suicides over the years.
(A) incidence (B) indebtedness
(C) manifested (D) spade
(E) All are correct
71. In the following question, three sentences are given, revolving around the same theme or idea. Decide which of the sentences are grammatically and meaningfully correct and mark the answer accordingly.
I. On April 3, 1973, Marty Cooper stood on a corner of Sixth Avenue in New York and took a phone book from his pocket.
II. He then punched a number into a large, cream-coloured device and put it to his ear while passers-by stared at him.
III. Mr. Cooper, an engineer at Motorola, rang his counterpart at rival firm to triumphantly tell him he was calling from a personal, handheld, portable cell phone.
(A) Only I and II (B) Only II and III
(C) Only I (D) Only III
(E) All I, II, and III
72. In the following question, a sentence is given with certain words marked as (A), (B), (C), (D) and (E). Choose the options with the correct sequence of words to make the sentence grammatically and contextually correct. If no change is required, mark E 'No change required' as your answer.
A lot of **we** (A) felt there were no **brands** (B) out there that catered to their **skin** (C) tone- It was light, medium, medium dark, dark and **reality** (D) all know that's not **women** (E).
(A) BCDAE (B) DACEB
(C) AECBD (D) EBCAD
(E) No change required.
73. In the question below, a sentence is given, four words have been highlighted in bold. Find out if the words are appropriate (grammatically and contextually). Only one word will be inappropriate, mark that as your answer. If all are appropriate, mark "All are correct". With Chris Pratt **voicing** the lead, this is the **latent** in the **trend** of video game worlds, characters, and stories being **adapted** for television or film.
(A) voicing (B) latent
(C) trend (D) adapted
(E) All are correct
74. In the following question, a sentence is given with a phrase highlighted in bold. Select the option given below that can replace the phrase in bold to make the sentence grammatically and contextually correct and mark that as your answer. If the sentence is correct as it is, mark 'No correction required', as the answer.
Festivals present artists with the opportunity to **put their skills to the test** in front of a knowledgeable audience and connoisseurs.
(A) put its skill to the test
(B) took a chance with their luck
(C) gives their best performance
(D) No correction required
(E) try theirs luck for once
75. In the question given below, a sentence is given with two blanks, followed by five options, each having two words that may or may not fit in the blanks. Choose the option that gives the correct words that fit in the blanks.
Wines produced from the same grape cultivars but in different locations possess _____ qualities leading to _____ consumer appreciation.
(A) normal, divide (B) distinctive, different
(C) common, contrasting (D) significance, great
(E) unique, uniqueness
76. In the question given below, three statements are given which may or may not contain an error. Choose the one that is grammatically and meaningfully correct. If all the sentences are correct, choose 'All are correct' as your answer.
A. The library has a vast collection of book's, each organised meticulously by genre.
B. We hiked to the summit of the mountain, enjoying the breathtaking view.
C. The music filled the room, creating a soothing atmosphere.
(A) Only C (B) Only B
(C) All are correct (D) Both A and C
(E) Both B and C
77. In the following question, one part of the sentence may have an error. Find out which part of the sentence has an error and select the appropriate option. If the sentence is free from error, select 'No Error'.

- (A) Lifestyle changes and
(B) medications can low
(C) blood pressure and decrease the
(D) risk of health complications.
(E) No error

78. In the following question, a sentence is given, divided into four parts, which may or may not contain an error. Mark the option containing the part with the error. If the sentence is error free, mark 'No error' as the answer.
Their company was(A)/ more large and therefore more (B)/ famous than any other (C)/ start-up in the entire area (D)/ No error (E).

- (A) E (B) A
(C) D (D) C
(E) B

79. In the question below, a sentence is given with four words highlighted in bold. One of these four words may either be wrongly spelt or inappropriate in the context of the sentence. Find out the word, which is wrongly spelt or inappropriate, if any. If all the words are correctly spelled and appropriate in the context of the sentence, mark (E) as your answer.
The government of Iran is an Islamic theocracy that includes some **elements** of a presidential system, with the **ultimate** authority **vested** in an **autocratic** Supreme Leader.

- (A) elements (B) ultimate
(C) vested (D) autocratic
(E) All are correct

80. In the question below, a sentence is given with four words highlighted in bold. One of these four words may be either wrongly spelt or inappropriate in the context of the sentence. Find out the word, which is wrongly spelt or inappropriate, if any. If all the words are correctly spelt and appropriate in the context of the sentence, mark 'All are correct' as your answer.

The **advertisement** (A) tends to **exaggerate** (B) the **disagreements** (C) and may create a **tussle** (D) between the two administrations.

- (A) B (B) D
(C) C (D) All are correct
(E) A

81. In the given question, a word has been given and there are three ways in which the word has been used, in similar or different forms. Find out which of the sentences has/have correctly used the highlighted word and mark your answer accordingly.

Plant

I. She carefully **planted** a variety of flowers in her garden.

II. The tall, leafy **plant** in the corner of the room added a touch of greenery.

III. She had a well-thought-out **plant** to complete her project ahead of the deadline.

- (A) All I, II and III (B) Only II
(C) Only III (D) Both I and III
(E) Both I and II

Direction: (82-86): In the given question, a sentence has been broken into four parts and the parts are jumbled. Choose the option which provides the correct way to re-arrange the parts to form a grammatically and contextually meaningful sentence. If all the parts are correctly placed, mark E as your answer.

82. a diet of image-heavy books, I (A)/ found the idea of reading (B)/ having grown up on (C)/ text-only novels quite intimidating (D)

- (A) ACBD (B) CDAB
(C) CABD (D) ADBC
(E) No rearrangement required

83. fail miserably with another (A)/ well that an activity that works (B)/ every author knows only too (C)/ brilliantly with one group may (D)

- (A) BADC (B) BDAC
(C) CDBA (D) CBDA
(E) No rearrangement required

84. in very simple phenomena like in (A)/ time taken to react to a (B)/ stimulus and also in highly global concepts like happiness (C)/ psychological attributes are involved (D)

- (A) BDAC (B) ACDB
(C) BCDA (D) DABC
(E) No rearrangement required

85. that Wales' red squirrels face being wiped (A)/ campaigners have warned (B)/ a vaccine is developed (C)/ out by a deadly virus unless (D)

- (A) CDAB (B) BADC
(C) BACD (D) CABD
(E) No rearrangement required

86. Michelle Collins says she is terrified (A)/ to enter her kitchen every morning (B)/ because of the grey squirrels that (C)/ have been living in her house. (D)

- (A) BADC (B) ACDB
(C) CABD (D) DABC
(E) No rearrangement required

Directions [87-91]: In the following passage, some of the words have been left out and replaced by a blank represented by a letter. First read the passage and try to understand what it is about. Then fill in the blanks as per the questions given.

A virus carried by ticks, which is common in many parts of the world, is now present in the UK, and health officials are (A) the public how to avoid bites from the tiny bugs. They say the risk of tick-borne encephalitis is very low - only one person has been confirmed to have been infected in England so far, last year. But the tick species that carries the virus is (B) in the UK. Most people do not develop (C), but swelling of the brain is possible. The UK Health Security Agency has recommended changes to testing in hospitals so that any new cases can be picked up quickly. Enhanced (D) for the virus is now being carried out in England and Scotland, where there is one probable case of tick-borne encephalitis. Health officials are also (E) for the presence of the virus in blood samples from people with no symptoms in parts of Yorkshire, where the confirmed case was infected.

87. Select the appropriate word for blank (A).
 (A) appraising (B) affronting
 (C) citing (D) reminding
 (E) None of the above
88. Select the appropriate word for blank (B).
 (A) venal (B) prudent
 (C) widespread (D) incumbent
 (E) None of the above
89. Select the appropriate word for blank (C).
 (A) traits (B) symptoms
 (C) omens (D) proof
 (E) None of the above
90. Select the appropriate word for blank (D).
 (A) retaliation (B) transgression
 (C) stigmatization (D) surveillance
 (E) None of the above
91. Select the appropriate word for blank (E).
 (A) testing (B) dissenting
 (C) faltering (D) peddling
 (E) None of the above

Directions [92-100]: Read the following passage carefully and answer the questions that follow.

Using ultracold temperatures and some steel ball bearings, scientists have created a brand-new, bizarre form of ice that has the same density as liquid water. The ice, known as medium-density amorphous ice, fits into a gap in the annals of frozen water that scientists weren't sure would ever be filled. Unlike the crystalline ice that forms naturally on Earth, the newly created ice doesn't have an organized molecular structure. Instead, its molecules are in a **chaotic** mismatch, more like glass - a state known as amorphous. Other types of amorphous ice have been made before, but they've been either much less dense or far denser than liquid water. This new Goldilocks version of amorphous ice is right in the middle, almost exactly matching liquid water's density. When ice freezes normally on Earth, its molecules stack into an organized crystalline structure. This crystalline ice is one of the weird quirks of H₂O, because it floats on liquid water in its solid state rather than sinking. This is due to the relatively big gaps in the crystal structure of water ice, compared with other materials that form denser structures when they crystallize.

When properly **manipulated**, though, liquid water can also freeze in a disorganized, amorphous state. The first of these states, low-density amorphous ice, was discovered in the 1930s. It's made by depositing water vapour on very cold surfaces. This process happens naturally in space, Salzmänn said, so low-density amorphous ice may be the most common form of ice in the universe. In the 1980s, researchers discovered that they could also make high-density amorphous ice by compressing regular ice at very low temperatures. But no one ever had ever made amorphous ice with a medium density - that is, until Salzmänn and his colleagues decided to try ball-milling ice. A ball mill is a device kind of like a very advanced cocktail

shaker. Material is put into a chamber with stainless-steel balls and shaken or turned until the material is ground up. The researchers expected that the ball mill would just break the ice crystals into smaller ice crystals. But that's not what happened. Instead, the tumbling steel balls sheared and compressed the ice crystals, shoving them into a new state of **disorganization**. The result? Medium-density amorphous ice.

92. Which of the following is/are the properties of the newly created ice?
 I. It has almost the same density as water.
 II. The newly created ice lacks an organized molecular structure.
 III. The newly created amorphous ice is the most prevalent form in space.
 (A) Both I and III (B) Only II
 (C) Both I and II (D) All I, II and III
 (E) Both II and III
93. According to the passage, which of the following statements is/are true?
 I. In rare cases, amorphous ice is formed naturally.
 II. The medium-density ice is the first amorphous ice that was created in a lab.
 III. When water vapour is deposited on extremely cold surfaces, low-density ice is created.
 (A) Only I (B) Both I and III
 (C) Both II and III (D) Both I and II
 (E) Only III
94. As per the passage, why has low-density amorphous ice become the most prevalent type of ice in the universe?
 (A) It is formed as a result of physical changes in medium-density amorphous ice.
 (B) The material used to create this amorphous ice is very cheap.
 (C) It is common because the constituents can be found naturally.
 (D) Due to the fact that it naturally forms, low-density amorphous ice is common.
 (E) You don't need special equipment to create a low-density amorphous ice
95. What distinguishes Salzmänn and his colleagues' discovery from others?
 (A) Until then, no one was able to formulate ice which doesn't have an organized molecular structure.
 (B) It is the first discovery of amorphous ice.
 (C) They were able to create ice which has almost the same density as that of water.
 (D) They were able to create ice that can stay submerged in water.
 (E) The melting point of this type of ice is very high, so it can last longer.
96. According to the passage, what is a ball mill?
 (A) A mining machine that can be used to mine amorphous material.
 (B) A big cocktail shaker that can be used to crystallise materials.
 (C) A chamber with stainless steel balls that can be used to break material.

- (D) A ball made of stainless steel that can be used to create amorphous material.
(E) A heating chamber that can be used to reduce the density of ice.
97. Other than creating amorphous material, a ball mill can be used to:
(A) Decrease the density of an amorphous material.
(B) Reduce the distance between the molecules in liquids.
(C) Crystallise liquids very fast.
(D) Grinding soft, frozen materials into powders.
(E) Find low-density ice in space.
98. According to the passage, which of the following is the synonym of the word 'CHAOTIC'?
- (A) Kempt
(C) Carnage
(E) Organized
- (B) Anarchic
(D) Secretive
99. According to the passage, which of the following is the synonym of the word 'MANIPULATED'?
(A) Destroy
(C) Arrange
(E) Misuse
- (B) Create
(D) Distort
100. According to the passage, which of the following is the antonym of the word 'DISORGANIZATION'?
(A) Proud
(C) Easiness
(E) Jumble
- (B) Confusion
(D) Pattern

Space for rough work

SCHOLARS ACADEMY

11

Solution

SCHOLARS ACADEMY

General Intelligence and Reasoning

1. Answer: (E)
The logic followed here is as follows,
The second letter is the reverse of the third letter as per English alphabetical order. Also, the fourth letter is the immediate succeeding letter of the first letter.
In option 'a': J+1 = K, (C) is opposite to (X)
In option 'b': V+1 = W, (N) is opposite to (M)
In option 'c': C+1 = D, (L) is opposite to (O)
In option 'd': R+1 = S, (G) is opposite to (T)
In option 'e': A+1 = B, (O) is opposite to (L)
So, 'AOKB' is the odd letter cluster.
2. Answer: (C)
Starting point: Start with R, N and P to form minimum number of cases initially.
Clues:
1) No person sits to the right of R.
2) N sits third to the left of R.
3) One person sits between N and P.
4) W sits opposite to P.
Inferences:
From clue 1, R sits at the extreme right end seat of row B.
From clue 2, clue 3 and clue 4, P sits second to the right of N or second to the left of N. Thus, W sits opposite to P.
Case 1: P sits second to the right of N.
Case 2: P sits second to the left of N.
Clues:
1) Three persons sit between Y and W.
2) U sits immediate right of V.
3) Q sits opposite to U.
Inferences:
From clue 1, W sits fourth to the left or right of Y.
Case 1:
From clue 2 and clue 3, V sits second to the right of W and thus U sits immediate right of V.
Case 2:
From clue 2 and clue 3, V sits second to the left of W and thus U sits immediate right of V.
3. Answer: (B)
Z sits opposite to R.
Z sits third to the left of V.
4. Answer: (A)
V sits opposite to N.
5. Answer: (D)
X sits third to the left of W.
O sits opposite to X.
6. Answer: (D)
Among the persons in the given options, only L sits at the extreme end seat.
7. Answer: (E)
Ten persons:- P, Q, R, S, T, U, V, W, X and Y are working in a construction company at different designations but not necessarily in the same order. The designations in decreasing orders are Project Manager, Senior Engineer, Architect, Junior Engineer, Iron worker, Tradesman, Blasting Labour, Power tools Labour, Hand tools Labour and Air tools Labour such that Project Manager is the seniormost position and Air tools Labour is the juniormost position.

The only person remaining is Z, who sits opposite to R.

The final arrangement is as follows:

Table with 2 rows (Row A, Row B) and 8 columns (T, W, U, V, X, Y, Z, L, P, Q, N, O, M, R).

Four persons sit to the right of X.

3. Answer: (B)
Z sits opposite to R.
Z sits third to the left of V.
4. Answer: (A)
V sits opposite to N.
5. Answer: (D)
X sits third to the left of W.
O sits opposite to X.
6. Answer: (D)
Among the persons in the given options, only L sits at the extreme end seat.

7. Answer: (E)
Ten persons:- P, Q, R, S, T, U, V, W, X and Y are working in a construction company at different designations but not necessarily in the same order. The designations in decreasing orders are Project Manager, Senior Engineer, Architect, Junior Engineer, Iron worker, Tradesman, Blasting Labour, Power tools Labour, Hand tools Labour and Air tools Labour such that Project Manager is the seniormost position and Air tools Labour is the juniormost position.

Table with 2 columns: Designations, Person. Rows include Project Manager, Senior Engineer, Architect, Junior Engineer, Iron worker, Tradesman, Blasting Labour, Power tools Labour, Hand tools Labour, Air tools Labour.

Only three persons are junior to U.

Table with 2 columns: Designations, Person. Rows include Project Manager, Senior Engineer, Architect, Junior Engineer, Iron worker, Tradesman, Blasting Labour, Power tools Labour, Hand tools Labour, Air tools Labour.

Q is immediate junior to V but immediate senior to S.

Neither V nor X is the seniormost person.

Table with 5 columns: Designations, Case 1, Case 2, Case 3, Case 4. Rows include Project Manager, Senior Engineer, Architect, Junior Engineer.

Iron worker		S	Q	
Tradesman			S	
Blasting Labour	U	U	U	U
Power tools Labour				V
Hand tools Labour				Q
Air tools Labour				S

The number of persons senior to V is same as the number of persons junior to W.
Thus, Case 3 gets cancelled.

	Case 1	Case 2	Case 4
Designations	Person	Person	Person
Project Manager			
Senior Engineer	V		
Architect	Q	V	W
Junior Engineer	S	Q	
Iron worker		S	
Tradesman			
Blasting Labour	U	U	U
Power tools Labour		W	V
Hand tools Labour	W		Q
Airtools Labour			S

R is immediate junior to X.
Neither P nor R is the juniormost person.
Neither V nor X is the seniormost person.

	Case 1	Case 4	Case 4a
Designations	Person	Person	Person
Project Manager			
Senior Engineer	V		
Architect	Q	W	W
Junior Engineer	S		X
Iron worker	X	X	R
Tradesman	R	R	
Blasting Labour	U	U	U
Power tools Labour		V	V
Hand tools Labour	W	Q	Q
Air tools Labour		S	S

Not more than 3 persons are junior to P and T.
Neither P nor R is the juniormost person.
Thus, Case 4 and Case 4a get cancelled.

	Case 1
Designations	Person
Project Manager	
Senior Engineer	V
Architect	Q
Junior Engineer	S
Iron worker	X
Tradesman	R
Blasting Labour	U
Power tools Labour	P
Hand tools Labour	W
Air tools Labour	T

Now, only Y is remaining.

Designations	Person
Project Manager	Y
Senior Engineer	V
Architect	Q
Junior Engineer	S
Iron worker	X

Tradesman	R
Blasting Labour	U
Power tools Labour	P
Hand tools Labour	W
Air tools Labour	T

This is the final arrangement.
Y is the seniormost person.

8. **Answer: (A)**
Two persons are junior to P.
9. **Answer: (C)**
T - Air tools Labour
Q - Architect
10. **Answer: (B)**
S, whose designation is Junior Engineer, is immediate senior to X, whose designation is Iron worker.
11. **Answer: (E)**
Nine girls- M, N, O, P, Q, R, S, T and U were born from 2001 to 2009 such that only one girl was born each year, but not necessarily in the same order.
Some girls are born in January and some are born in February.
P was born in 2005.
Not more than four girls were born before T.
Five girls were born between O and T.

	Case 1	Case 2	Case 2
Year	Month	Girls	Girls
2001		T	
2002			T
2003			T
2004			
2005		P	P
2006			
2007		O	
2008			O
2009			O

S is elder than Q and younger than O.
Thus, case 2 and case 3 are invalid.

Year	Month	Girls
2001		T
2002		
2003		
2004		
2005		P
2006		
2007		O
2008		S
2009		Q

Three girls were born between O and U, who is younger than M.

Year	Month	Girls
2001		T
2002		M
2003		U
2004		
2005		P
2006		
2007		O
2008		S
2009		Q

R was born after N.
All girls who are elder than R were born in February.

Year	Month	Girls
2001	February	T

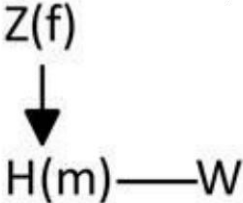
2002	February	M
2003	February	U
2004	February	N
2005	February	P
2006		R
2007		O
2008		S
2009		Q

Only four girls were born in January. It means all R, O, S and Q were born in January.
Therefore, the final arrangement is:

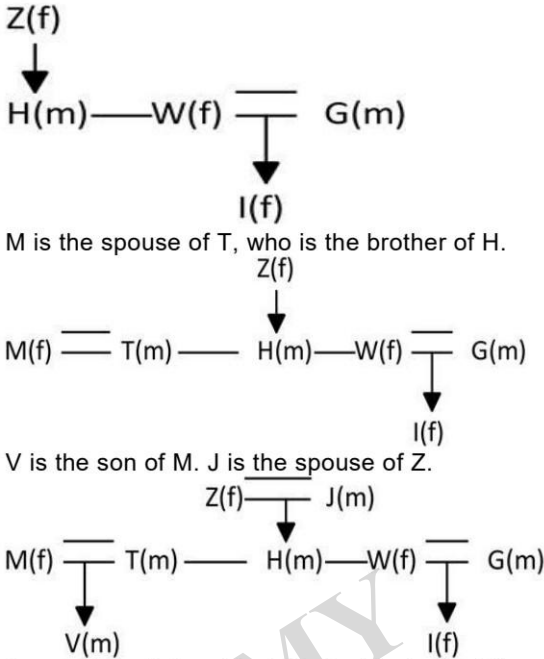
Year	Month	Girls
2001	February	T
2002	February	M
2003	February	U
2004	February	N
2005	February	P
2006	January	R
2007	January	O
2008	January	S
2009	January	Q

Only R, O, S and Q were born in January.

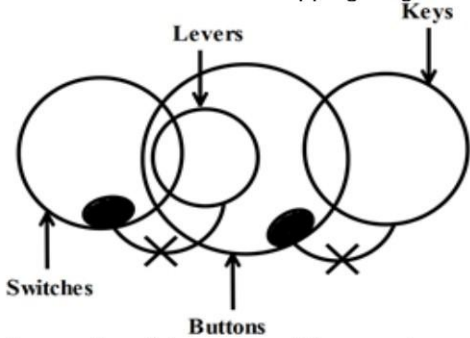
12. **Answer: (A)**
Only the order given in option (a) is correct.
13. **Answer: (E)**
R was born in 2006.
14. **Answer: (D)**
Except O, all other girls were born in February.
15. **Answer: (D)**
M, N, R and S were born on even numbered year.
16. **Answer: (E)**
741358
After substitution the number is 832467
after rearrangement - 234678
Third digit from left - 4
So, 4 will be the third digit from the left end after the rearrangement.
17. **Answer: (B)**
Given word: 'STACKING',
The 2nd, 4th, 6th, 7th, and 8th letter of the word " are 'T', 'C', 'I', 'N' and 'G' respectively.
Only one four-letter meaningful word (TING) can be formed using the letters 'T', 'C', 'I', 'N' and 'G'.
18. **Answer: (B)**
- | | | | | | | |
|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| M | E | R | C | U | R | Y |
| 1 st | 2 nd | 3 rd | 4 th | 5 th | 6 th | 7 th |
| C | R | Y | | | | |
| 4 th | 6 th | 7 th | | | | |
- So, the word formed is CRY.
So, 'C' is the answer because it is the third letter from the right end of the word formed.
19. **Answer: (B)**
We consider males as (m) and females as (f).
Also,
As per the given information the diagram is,
Z is the mother of H, who is the brother of W.



I is the daughter of W, who is the wife of G.



20. **Answer: (C)**
As per the relationship, V is the Nephew of H.
21. **Answer: (D)**
As per the relationship, J is the Grandfather of I.
22. **Answer: (D)**
The logic followed here is as follows,
Alternately from the left end, replace the letters with their third succeeding and immediately preceding letters, respectively.
For 'SLING':
- | | | | | |
|----|----|----|----|----|
| S | L | I | N | G |
| +3 | -1 | +3 | -1 | +3 |
| V | K | L | M | J |
- For 'LOAD':
- | | | | |
|----|----|----|----|
| L | O | A | D |
| +3 | -1 | +3 | -1 |
| O | N | D | C |
- For 'TABLE':
- | | | | | |
|----|----|----|----|----|
| T | A | B | L | E |
| +3 | -1 | +3 | -1 | +3 |
| W | Z | E | K | H |
- So, 'TABLE' is coded as 'WZEKH'.
23. **Answer: (B)**
The given statements are,
Only a few switches are levers. All levers are buttons. Only a few buttons are keys.
The basic minimum overlapping diagram is,

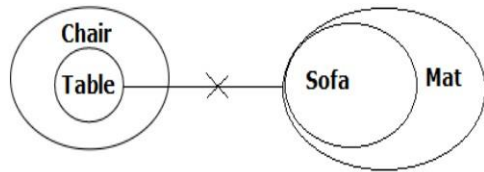


Here, all switches are not keys and some buttons are not keys.

Hence, the conclusion II follows and conclusion I does not follow.

24. **Answer: (D)**

Venn diagram:



I. Some Chair is Mat ---- Does not follow
II. No Mat is Chair ---- Does not follow
So, Either Conclusion I or II follows.

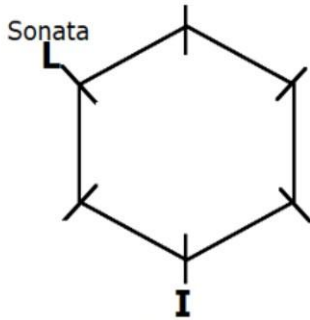
25. **Answer: (A)**

In option a. $T < G < C = R \geq A > X < Q = P \geq D > V$;
both $Q \geq D$ and $X < C$ is definitely true.

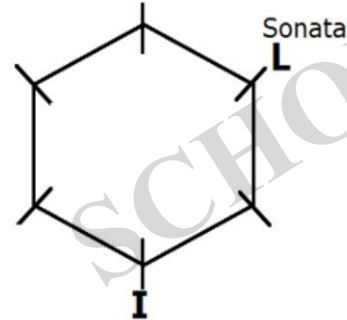
26. **Answer: (E)**

Only one person sits between I and L, who likes Sonata watch.

Case1-



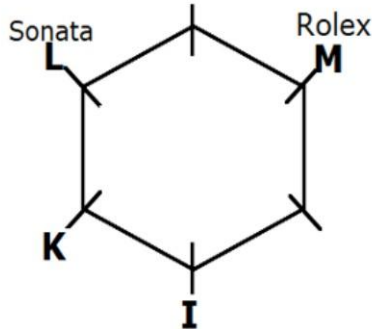
Case 2-



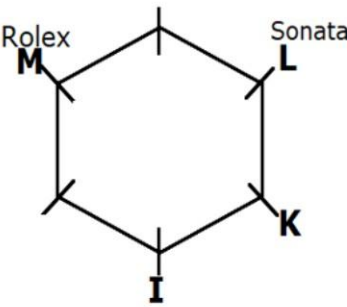
M, who likes Rolex watch, sits third to the right of K.

K sits adjacent to L.

Case1-



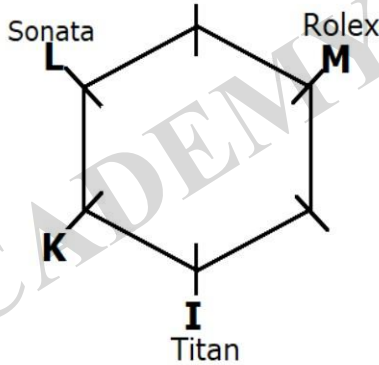
Case 2-



The one who likes Titan watch sits second to the left of M.

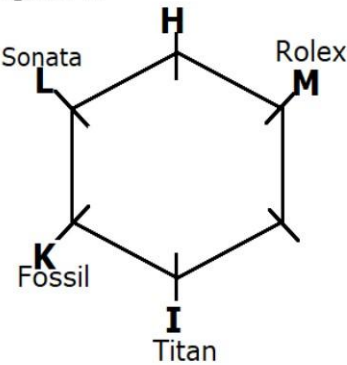
Thus, Case 2 gets cancelled.

Case1-

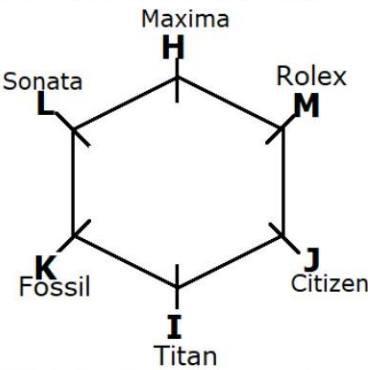


H does not sits adjacent to I.

The one who likes Fossil watch sits second to the right of H.



J does not likes Maxima watch.



This is the final arrangement.
J likes Citizen watch.

27. Answer: (B)
Two persons sit between I and the one who likes Maxima watch when counted from the right of I.
28. Answer: (C)
M sits immediate right of J. This statement is true.
29. Answer: (A)
L sits opposite to J.
In the same way, K sits opposite to M.
30. Answer: (A)
M sits third to the left of K, who likes Fossil watch.
31. Answer: (B)

Nine persons live in a five-storeyed building such that the bottommost floor is number 1 above that number 2 and so on. Each of the floors consists of 2 flats such as flat-X and flat-Y. Flat X is to the west of Flat Y. Flat-X of floor-2 is immediately above flat-X of floor-1 and immediately below flat-X of floor-3 and in the same way, flat-Y of floor-2 is immediately above flat-Y of floor-1 and immediately below flat-Y of floor-3 and so on. One of the flats is vacant.

Table with 3 columns: Floor, Flat X, Flat Y. Rows for floors 5, 4, 3, 2, 1.

Two floors are between H and K, who lives on the prime number floor above H.
G lives immediately to the east of H.

Table with 5 columns: Floor, Flat X, Flat Y, Flat X, Flat Y. Rows for floors 5, 4, 3, 2, 1, showing Case 1 and Case 2 possibilities.

Only one floor is between H and M, who lives immediately below E.
Neither E nor M lives in flat X.
Thus, Case 2 gets cancelled.

Table with 3 columns: Floor, Flat X, Flat Y. Rows for floors 5, 4, 3, 2, 1, showing Case 1.

T lives immediately above Z.

Table with 5 columns: Floor, Flat X, Flat Y, Flat X, Flat Y. Rows for floors 5, 4, 3, 2, 1, showing Case 1 and Case 1a.

O lives to the east of J but not on floor 3.
Flat Y is not vacant on any floor.
Thus, Case 1 gets cancelled.

Table with 3 columns: Floor, Flat X, Flat Y. Rows for floors 5, 4, 3, 2, 1.

- This is the final arrangement.
J lives in flat X of floor 1.
32. Answer: (C)
Five persons live below the flat of M.
33. Answer: (E)
K and E live on the same floor.
In the same way, T and M live on the same floor.
34. Answer: (A)
Option(a) statement is true.
J lives on the bottommost floor.
35. Answer: (D)
O lives immediately below G, who lives with H on floor 2.

Quantitative Aptitude

36. Answer: (C)
Let the radius of the circular field = 'r' metres
Then, area of the field = π × r² = (22/7) × r² = 1386
So, r² = 1386 × (7/22) = 441
So, r = √441 = 21 {Since, radius cannot be negative}
Circumference of the circular field = 2 × (22/7) × 21 = 132 metres
So, surface area of one side of the compound wall = 2πr × height = 132 × 3 = 396 m²
37. Answer: (C)
Average of 15 numbers = 270
Average of 5 numbers = 238
Average of 3 numbers = 230
Average of 4 numbers = 350
Sum of last three numbers = 15 × 270 - 5 × 238 - 3 × 230 - 4 × 350
= 4050 - 1190 - 690 - 1400 = 770
38. Answer: (B)
24K + 192 = 336
=> 24K = 144
=> K = 6
And K + M = 28
=> M = 22
Hence, difference = 22 - 6 = 16
39. Answer: (A)
Let total amount be ₹2000x.
P's cash = ¼ × 2000x = 500x
Remaining cash = 2000x - 500x = 1500x
Q's amount = 8/15 × 1500x = 800x
R's amount = 1/5 × 2000x = 400x
S's amount = 300 = 2000x - 500x - 800x - 400x
300 = 300x
x = 1
required difference = 500 - 400 = ₹100
40. Answer: (C)
From I:
2x² - 21x + 54 = 0
Or, 2x² - 12x - 9x + 54 = 0
Or, 2x(x - 6) - 9(x - 6) = 0
Or, (2x - 9)(x - 6) = 0
So, x = 4.5 or 6
From II:
2y² - 19y + 44 = 0
Or, 2y² - 8y - 11y + 44 = 0
Or, 2y(y - 4) - 11(y - 4) = 0
Or, (2y - 11)(y - 4) = 0
So, y = 5.5 or 4
Table with 3 columns: 'x', Relation, 'y'. Rows for x=4.5 and x=4.

6	>	5.5
6	>	4

Therefore, no relation can be established between 'x' and 'y'.

41. **Answer: (E)**

From equation I:

$$x^2 + 24x + 95 = (x + 19)(x + 5) = 0$$

$$\Rightarrow x = -19, -5$$

From equation II:

$$y^2 + 27y + 92 = (y + 23)(y + 4) = 0$$

$$\Rightarrow y = -23, -4$$

	X = -19	X = -5
Y = -23	x > y	x > y
Y = -4	x < y	x < y

So, relationship cannot be established between x and y

42. **Answer: (C)**

Let the marked price of the article be ₹100x'

ATQ;

$$100x \times 0.7 + 90 = 100x \times 0.85 \times 0.85$$

$$\text{Or, } 70x + 90 = 72.25x$$

$$\text{So, } 90 = 2.25x$$

$$\text{So, } x = 40$$

$$\text{So, marked price of the article} = 100 \times 40 = ₹4,000$$

43. **Answer: (A)**

$$109\% \text{ of } 749 + ? \times (3.99)^{1/2} = (29.03)^2$$

By taking approximate values, we get

$$110\% \text{ of } 750 + ? \times (4)^{1/2} = (29)^2$$

$$825 + ? \times 2 = 841$$

$$? \times 2 = 16$$

$$? = 8$$

44. **Answer: (C)**

$$76.06 \div 19.09 + (21.01 \times 17.79) = 37.99 \times 9.98 + ?$$

$$76 \div 19 + (21 \times 18) = 38 \times 10 + ?$$

$$4 + 378 = 380 + ?$$

$$382 = 380 + ?$$

$$? = 382 - 380$$

$$? = 2$$

45. **Answer: (D)**

$$39.77\% \text{ of } 40.08 - ? + 96.22 = (11.08)^2$$

By taking approximate values, we get

$$40\% \text{ of } 40 - ? + 96 = 11^2$$

$$16 - ? + 96 = 121$$

$$112 - ? = 121$$

$$? = -9$$

46. **Answer: (C)**

30% of colleges in city C are government colleges and rest 56 are private colleges.

$$\text{Total number of colleges in city C} = 56 \times 100 / (100 - 30) = 80$$

$$\text{Number of government colleges in city C} = 80 - 56 = 24$$

Number of government colleges in city C is 20% less than that of government colleges in city B.

$$\text{Number of government colleges in city B} = 24 \times 100 / (100 - 20) = 30$$

In city B, number of private colleges are 60 more than that of government colleges.

$$\text{Number of private colleges in city B} = 60 + 30 = 90$$

$$\text{Total number of colleges in city B} = 30 + 90 = 120$$

Number of government colleges in city A is 70% more than the number of private colleges in same city and 5 less than the number of private colleges in city B.

$$\text{Number of government colleges in city A} = 90 - 5 = 85$$

$$\text{Number of private colleges in city A}$$

$$= 85 \times 100 / (100 + 70) = 50$$

$$\text{Total number of colleges in city A} = 85 + 50 = 135$$

Total number of colleges in city B and D are in the ratio 4: 5 respectively.

$$\text{Total number of colleges in city D} = 120 \times 5 / 4 = 150$$

Average number of private colleges in city A and D is 52. Then,

$$\text{Number of private colleges in city D} = 2 \times 52 - 50 = 54$$

$$\text{Number of government colleges in city D} = 150 - 54 = 96$$

In tabular form:

City	Number of colleges		
	Total	Government	Private
A	135	85	50
B	120	30	90
C	80	24	56
D	150	96	54

$$\text{Total number of colleges in city A} = 135$$

$$\text{Total number of colleges in city D} = 150$$

$$\text{Therefore, percentage} = ((150 - 135) / 150) \times 100 = 10\%$$

47. **Answer: (E)**

Total number of students in government colleges in city B = 30 × 300 = 9000

Total number of students in private colleges in city B = 90 × 200 = 18000

Therefore, total number of students in all government and all private colleges together in city B

$$= 9000 + 18000 = 27000$$

48. **Answer: (C)**

When 'k' government colleges become private in city D, then

$$\text{Number of government colleges in city D} = 96 - k$$

$$\text{Number of private colleges in city D} = 54 + k$$

$$\text{Now, } 96 - k = 54 + k$$

$$2k = 42$$

$$k = 21$$

49. **Answer: (B)**

$$\text{Number of government colleges in city A} = 85$$

And the average number of private colleges in city B and C = (90 + 56) / 2 = 73

$$\text{Therefore, difference} = 85 - 73 = 12$$

50. **Answer: (E)**

$$\text{Number of government colleges in city E} = (100 - 50)\% \text{ of } 30 = 15$$

$$\text{Number of private colleges in city E} = (100 + 50)\% \text{ of } 56 = 84$$

$$\text{Therefore, total number of colleges in city E} = 15 + 84 = 99$$

51. **Answer: (C)**

Logic for the given series -

$$234 + 11 = 245$$

$$245 + 14 = 259$$

$$259 + 17 = 276$$

$$276 + 20 = 296$$

$$296 + 23 = 319$$

Hence, missing term = 296

52. **Answer: (B)**

The pattern is as follows:

$$9^3 - 5 = 724$$

$$8^3 - 6 = 506$$

$$7^3 - 7 = 336$$

$$6^3 - 8 = 208$$

$$5^3 - 9 = 116$$

53. $4^3 - 10 = 54$
Answer: (B)
 Logic for the given series:
 $122 + 4^0 = 123$ (not 124)
 $123 + 4^1 = 127$
 $127 + 4^2 = 143$
 $143 + 4^3 = 207$
 $207 + 4^4 = 463$
 Hence, wrong term = 124
54. **Answer: (A)**
 Simple interest received on investing ₹Y = $Y \times (8 \times 4.5 \div 100) = ₹0.36Y$
 So, $0.36Y = 2700$
 So, $Y = 2700 \div 0.36 = 7500$
 So, total amount received on investing ₹(Y + 500)
 $= (7500 + 500) \times \{1 + (10/100)\}^2$
 $= 8000 \times (110/100)^2$
 $= ₹9,680$
55. **Answer: (A)**
 Speed of the boat in still water = $45/3 = 15$ km/h
 So, upstream speed = $15 - 2 = 13$ km/h and
 downstream speed = 17 km/h
 According to the question,
 $(T + 34)/13 + (T + 41)/17 = 11$
 $\Rightarrow T = 44$
56. **Answer: (B)**
 Let the usual speed of the car = '4x' km/h
 Then, increased speed of the car = $4x \times 1.25 = '5x'$ km/h
 Let the expected time taken to cover the distance of 900 km = 't' hours
 Then, according to the question
 $(900/4x) = t + 1.5 = (225/x) - [I]$
 Also, $(900/5x) = t - 1 = (180/x) - [II]$
 Equation (I) - Equation (II), we get
 $(t + 1.5) - (t - 1) = (225/x) - (180/x)$
 or, $2.5 = (45/x)$
 so, $x = 45 \div 2.5 = 18$
 so, usual speed of the car = $18 \times 4 = 72$ km/h
 expected time taken = $(900/72) - 1.5 = 11$ hours
 time taken by the car to cover 900 km when speed is increased by 8 km/h = $900 \div (72 + 8) = 11.25$ hours
 so, the car takes 0.25 hours more than the expected time.
57. **Answer: (A)**
 Let the quantity of mixture in container A = quantity of mixture in container B = a litres
 Then, quantity of juice in bigger container = quantity of juice in container A + quantity of juice in container B = $a \times 3/(3 + 1) + a \times 5/(5 + 6) = 53a/44$
 And quantity of water in bigger container = quantity of water in container A + quantity of water in container B = $a \times 1/(3 + 1) + a \times 6/(5 + 6) = 35a/44$
 Hence, ratio = $(53a/44) : (35a/44) = 53:35$
58. **Answer: (A)**
 Let after 'x' months B withdraws 25% from his capital.
 Total amount invested by A = $(5000 \times 3 + 7000 \times 9) = 78000$
 Total amount invested by B = $[4000 \times x + 3000 \times (12 - x)] = (36000 + 1000x)$
 Total amount invested by C = $7000 \times (12 - x) = (84000 - 7000x)$
 Let total profit = $[78000] + [36000 + 1000x] + [84000 - 7000x] = (198000 - 6000x)$
 Share of B = $9600 \times [(36000 + 1000x)/(198000 - 6000x)] = 1850$

$$[(36000 + 1000x)/(198000 - 6000x)] = 1850/9600 = 37/192$$

$$192(36000 + 1000x) = 37(198000 - 6000x)$$

$$192(36 + x) = 37(198 - 6x)$$

$$32(36 + x) = 37(33 - x)$$

$$1152 + 32x = 1221 - 37x$$

$$69x = 69$$

$$x = 1$$

$$\text{Profit of C} = 9600 \times [(84000 - 7000x)/(198000 - 6000x)] = 9600 \times [(77000)/(192000)] = ₹3850$$

59. **Answer: (E)**

$$\text{Average} = (\text{sum of observations})/(\text{number of observations})$$

$$\text{Sum of salary of 30 employees} = 30 \times 5000 = ₹150000$$

$$\text{Sum of salary of 10 new workers} = 10 \times 60y = 600y$$

$$\text{Now, sum of salary of all } (30 + 10 = 40) \text{ workers} = (5000 + y + 500) \times 40 = 220000 + 40y$$

$$\text{Then, } 150000 + 600y = 220000 + 40y$$

$$560y = 70000$$

$$y = 125$$

60. **Answer: (B)**

Let the present ages of Rahul and Namita be 7x years and 6x years respectively.

According to the question

$$(7x + 10)/(6x + 10) = 19/17$$

$$\Rightarrow 119x + 170 = 114x + 190$$

$$\Rightarrow 119x - 114x = 190 - 170$$

$$\Rightarrow 5x = 20$$

$$\Rightarrow x = 4$$

$$\text{Present age of Rahul} = 7x = 7 \times 4 = 28 \text{ years}$$

$$\text{Present age of Namita} = 6x = 6 \times 4 = 24 \text{ years}$$

Let they got married before x years

$$(28 - x)/(24 - x) = 11/9$$

$$\Rightarrow 9 \times (28 - x) = 11 \times (24 - x)$$

$$\Rightarrow 252 - 9x = 264 - 11x$$

$$\Rightarrow 11x - 9x = 264 - 252$$

$$\Rightarrow 2x = 12$$

$$\Rightarrow x = 6$$

$$\text{Age of Rahul when they got married} = 28 - 6$$

$$= 22 \text{ years}$$

Now

Let they got their first child before y years

$$(28 - y)/(24 - y) = 13/11$$

$$\Rightarrow 11 \times (28 - y) = 13 \times (24 - y)$$

$$\Rightarrow 308 - 11y = 312 - 13y$$

$$\Rightarrow 13y - 11y = 312 - 308$$

$$\Rightarrow 2y = 4$$

$$\Rightarrow y = 2 \text{ years}$$

$$\text{Age of Rahul when they got their first child} = 28 - 2$$

$$= 26 \text{ years}$$

26 - 22 = 4 years. Hence, they got their first child after four years of their marriage.

61. **Answer: (C)**

In city 'A',

$$\text{Number of electric cars} = 450 \times 0.4 = 180$$

$$\text{So, number of petrol cars} = 450 - 180 = 270$$

Similarly,

City	Number of electric cars	Number of petrol cars
A	180	270
B	225	150
C	156	364
D	220	180

$$\text{Number of diesel cars in city 'A'} = 270 \times (10/9) = 300$$

62. **Answer: (D)**

Sum of number of electric cars in cities 'C' and 'E'
 $= 170 \times 2 = 340$
 So, number of electric cars in city 'E' = $340 - 156$
 $= 184$

63. **Answer: (A)**

Number of petrol cars in city 'D' that are of Mahindra brand = $180 \times 0.45 = 81$

64. **Answer: (E)**

Required percentage = $\{(225 - 180)/180\} \times 100 = 25\%$

65. **Answer: (B)**

Number of petrol cars in city 'F' = $150 \times (34/25) = 204$
 So, required difference = $364 - 204 = 160$

66. **Answer: (E)**

Total number of pages printed by all three printers on Monday = $360 \times 3 = 1080$

Number of pages printed by printer Z on Monday = 360

Number of pages printed by printer Y on Monday = 480

So, number of pages printed by printer X on Monday = $1080 - 360 - 480 = 240$

	Total	Z	Y	X
Mon	1080	360	480	240
Tue	1620	810	270	540
Wed	720	180	270	270
Thu	1440	360	630	450

The number of pages printed by printer Y on Tuesday and Friday together = $270 + 630 \times 2/3 = 690$

67. **Answer: (D)**

Required ratio = $360 : 270 = 4 : 3$

68. **Answer: (C)**

Required % = $(480 - 180)/180 \times 100 = 166.66\%$

69. **Answer: (A)**

Required difference = $810 - 450 = 360$

70. **Answer: (D)**

Required average = $(240 + 540)/2 = 390$

English Language

71. **Answer: (E)**

All the given sentences are grammatically and meaningfully correct. Thus, E is the right answer.

72. **Answer: (D)**

Subjective pronoun 'we' is incorrectly use at A where either an objective pronoun can fit in or a noun to act as the object of the clause 'a lot of ____'. Since 'reality' is an abstract noun that cannot know or understand a thing, its usage at D is absurd. Also, 'women' at E is not able to convey any logical meaning. Again, 'reality' cannot 'feel' so the only noun left to place at A is 'women' that would convey that the feelings of those women. Similarly, 'we' would be the subject of the clause '____ all know'. And, 'reality' would be placed at E. Rest of the words are correct and meaningful at their original places.

Correct sentence:

A lot of **women** felt there were no **brands** out there that catered to their **skin** tone- It was light, medium, medium dark, dark and **we** all know that's not **reality**.

73. **Answer: (B)**

The sentence talks about the most recent film or TV show in which the lead character's voice has been given by Chris Pratt, in a trend of adaptations of video

game worlds, characters, and stories for television or film. The use of LATENT (existing but not active) is contextually incorrect and should be replaced with LATEST (most recent). Thus, B is the right answer.

74. **Answer: (D)**

The givens sentence is contextually and grammatically correct.

75. **Answer: (B)**

The first blank requires an adjective to qualify the noun 'qualities'. 'Significance' (the quality of being worthy of attention; importance) is a noun. So, option (d) is eliminated.

The second blank also requires an adjective to qualify the noun phrase 'consumer appreciation'. 'Divide' is a verb. So, option (a) is eliminated. 'Uniqueness' (the quality of being the only one of its kind) is a noun. So, option (e) is also eliminated. Common qualities don't lead to different or contrasting consumer appreciation. So, of the remaining two options, option (b) is the appropriate choice.

The words 'distinctive' (characteristic of one person or thing, and so serving to distinguish it from others) and 'different' provide a coherent sentence. Hence, option (b) is the correct answer.

The correct sentence is: Wines produced from the same grape cultivars but in different locations possess **distinctive** qualities leading to **different** consumer appreciation.

76. **Answer: (E)**

In sentence A, the use of the apostrophe is grammatically incorrect. The apostrophe is used to indicate possession and not pluralisation. Here, a plural noun is needed and not any possessive form.

The correct sentence is: The library has a vast collection of books, each organised meticulously by genre.

Sentences B and C are grammatically correct and meaningful.

77. **Answer: (B)**

In B, replace the adjective LOW with the verb LOWER as the modal verb CAN will be followed by a base form verb. Thus, B is the right answer.

78. **Answer: (E)**

Part B has an error. The correct comparative form of the adjective 'large' is 'larger', and not 'more large'. Hence, (e) is the correct answer.

The correct sentence would be: Their company was **larger** and therefore more famous than any other start-up in the entire area.

79. **Answer: (E)**

The sentence tells us how Iran includes some components (elements) of a presidential system, with the highest (ultimate) authority placed (vested) in a dictatorial (autocratic) Supreme Leader. All the highlighted words are grammatically and contextually apt here. Thus, E is the right answer.

80. **Answer: (A)**

In the given sentence, the word 'exaggerate' is incorrectly spelt.

Exaggerate: to magnify beyond the limits of truth; overstate; represent disproportionately
 Tussle: any vigorous or determined struggle, conflict, etc.

81. **Answer: (E)**

I - This sentence is about putting flowers in a garden so that they can grow. It uses the word "planted" in the context of gardening, as a verb.

II - This sentence describes a physical plant in a room, which is "tall" and "leafy." Here, the word is used as a noun.

III - In III, however, no possible meaning does fit in contextually. We can use the word 'plan' in place of 'plant' in the third statement.

82. **Answer: (C)**

CABD is the correct order of the parts of the sentence. C begins the sentence by describing the speaker's choice of reading when she was growing up. A will follow C, as the noun phrase A DIET..BOOKS in A can become the object of the preposition ON in C. Together, they will convey that the speaker used to read books that had a lot of images. BD will follow A as a pair. The noun TEXT-ONLY NOVELS in D can become the object of the verb READING in B. Together, they will convey that the idea of reading such books that have a lot of text makes the speaker nervous.

The correct sentence is:

Having grown up on a diet of image-heavy books, I found the idea of reading text-only novels quite intimidating.

83. **Answer: (D)**

CBDA is the correct order of the parts of the sentence. C begins the sentence by establishing the subject - EVERY AUTHOR. B will follow C, as the adverb TOO in C can modify the adverb WELL in B. DA will follow B as a pair. The adverb BRILLIANTLY in D can modify the verb WORKS in B, and the verb FAIL in A can follow the modal verb MAY in D. After rearrangement, the sentence will convey that every author is aware of the fact that an activity that works brilliantly with one group may not work with another group.

The correct sentence is:

Every author knows only too well that an activity that works brilliantly with one group may fail miserably with another.

84. **Answer: (D)**

DABC is the correct order of the parts of the sentence. D begins the sentence by establishing the subject - PSYCHOLOGICAL ATTRIBUTES. A will follow D, as the preposition IN in A will come after the verb INVOLVED in D to convey that the attributes are involved in very simple phenomena. BC will follow A as a pair. The noun TIME in B can form the object of the preposition IN in A, and the indefinite article A in B can be used to determine the singular noun STIMULUS in C. Together, they will convey that the attributes are involved in simple phenomena like time taken to react to a stimulus as well as highly global concepts like happiness. Thus, D is the right answer.

The correct sentence is:

Psychological attributes are involved in very simple phenomena like in time taken to react to a stimulus and also in highly global concepts like happiness.

85. **Answer: (B)**

BADC is the correct order of the parts of the sentence. B begins the sentence by establishing the subject of the sentence - CAMPAIGNERS. A will follow B, as the THAT clause in A can form the object of the verb WARNED in B. Together, they will convey that campaigners have warned about the red squirrels

in Wales. DC will follow A as a pair. The preposition OUT in D will come after the verb WIPED in A to form a phrasal verb and convey that the population of red squirrels faces the danger of going extinct, and the phrase A VACCINE..DEVELOPED in C will come after the conjunction UNLESS in D to introduce the situation in which the extinction will not take place.

The correct sentence is:

Campaigners have warned that Wales' red squirrels face being wiped out by a deadly virus unless a vaccine is developed.

86. **Answer: (E)**

All parts of the sentence are in the correct order. AB is a mandatory pair. Together, they convey that Michelle Collins is very frightened to enter her kitchen every morning. CD is another mandatory pair, and it follows B. Together, they convey that Michelle is afraid of the squirrels that have been living in her house. Thus, E is the right answer.

87. **Answer: (D)**

We need the present participle form of a verb to come after the auxiliary verb ARE and complete the present continuous tense structure. The sentence seeks to convey that the scientists are making people remember how to avoid bug bites. REMINDING (making someone remember something) will fit here. Thus, D is the right answer.

The remaining options are contextually incorrect.

APPRAISING - judging the value or quality of something.

AFFRONTING - insulting or offending someone.

CITING - mentioning something.

88. **Answer: (C)**

We need an adjective to come after the auxiliary verb IS and form the subject-complement of the noun THE TICK SPECIES. The sentence seeks to convey that the species is found all over the UK. WIDESPREAD (existing or found in many places) will fit here. Thus, C is the right answer.

The remaining options are contextually incorrect.

VENAL - willing to do immoral things for money.

PRUDENT - wise or judicious.

INCUMBENT - necessary.

PROOF - something that shows that something exists or is true.

89. **Answer: (B)**

We need a noun to form the object of the verb DEVELOP. The sentence seeks to convey that most people do not develop any feelings of mental or physical illness. SYMPTOMS (feelings of mental or physical illness caused by a disease) will fit here. Thus, B is the right answer.

The remaining options are contextually incorrect.

TRAITS - characteristics, especially those that belong to someone's personality.

OMENS - events that predict the future.

90. **Answer: (D)**

We need a noun to be modified by the adjective ENHANCED. The sentence talks about enhanced observation to detect the virus being carried out. SURVEILLANCE (close and continuous observation) will fit here. Thus, D is the right answer.

The remaining options are contextually incorrect.

RETALIATION - an act of revenge.

TRANSGRESSION - an act that breaks a law.

STIGMATISATION - to treat someone or something unfairly.

91. **Answer: (A)**
We need the present participle form of a verb to come after the auxiliary verb ARE and complete the present continuous tense structure, and highlight the action of examining the blood samples. TESTING (examining a part of body or body fluids) will fit here. Thus, A is the right answer.
The remaining options are contextually incorrect.
DISSENTING - disagreeing.
FALTERING - losing strength.
PEDDLING - selling things.
92. **Answer: (C)**
I: The first paragraph of the passage states that "scientists have created a brand-new, bizarre form of ice that has the same density as liquid water". According to this, statement I is correct.
II: The first paragraph of the passage states that "Unlike the crystalline ice that forms naturally on Earth, the newly created ice doesn't have an organized molecular structure". According to this, statement II is correct.
III: The second paragraph of the passage states that "This process happens naturally in space, Salzmänn said, so low-density amorphous ice may be the most common form of ice in the universe". According to this, low-density ice is the most prevalent in space. The newly created medium-density ice is not the most prevalent. Therefore, statement III is not correct.
Hence, option (c) is the correct answer.
93. **Answer: (E)**
I: The second paragraph of the passage states that "This process happens naturally in space, Salzmänn said, so low-density amorphous ice may be the most common form of ice in the universe". According to this, the formation of low-density ice is very common. So, statement I is not true.
II: The first paragraph of the passage states that "Other types of amorphous ice have been made before, but they've been either much less dense or far denser than liquid water". According to this, medium-density ice is not the first amorphous ice that has been created.
III: The second paragraph of the passage states that "low-density amorphous ice, was discovered in the 1930s. It's made by depositing water vapour on very cold surfaces". According to this, statement III is true.
Hence, option (e) is the correct answer.
94. **Answer: (D)**
The second paragraph of the passage states that "This process happens naturally in space, Salzmänn said, so low-density amorphous ice may be the most common form of ice in the universe". According to this, the formation of low-density amorphous ice happens naturally.
Hence, option (d) is the correct answer.
95. **Answer: (C)**
The second paragraph of the passage states that "But no one ever had ever made amorphous ice with a medium density - that is, until Salzmänn and his colleagues decided to try ball milling ice". According to this, no one ever had ever made amorphous ice with a medium density. The passage states that brand-new, bizarre form of ice that has the same density as liquid water. The medium density refers to the density of water.
96. **Answer: (C)**
The second paragraph of the passage states that "A ball mill is a device kind of like a very advanced cocktail shaker. A material is put into a chamber with stainless-steel balls and shaken or turned until the material is ground up". According to this, option (c) is the most appropriate choice.
97. **Answer: (D)**
The second paragraph of the passage states that "The researchers expected that the ball mill would just break the ice crystals into smaller ice crystals". According to this, the researchers expected the crystal would break inside the chamber. So, the ball mill can be used to break materials.
98. **Answer: (B)**
The word 'chaotic' means 'in a state of complete confusion and disorder'.
Kempt: (of a person or a place) maintained in a neat and clean condition; well cared for.
Anarchic: with no controlling rules or principles to give an order.
Carnage: the killing of a large number of people.
Secretive: (of a person or an organization) inclined to conceal feelings and intentions or not to disclose information.
Organized: arranged or structured in a systematic way.
Among the given options, 'anarchic' is the most appropriate synonym for the given word.
99. **Answer: (D)**
The word 'manipulated' means 'control or influence cleverly or unscrupulously'.
Destroy: end the existence of (something) by damaging or attacking it.
Create: bring (something) into existence.
Arrange: put (things) in a neat, attractive, or required order.
Distort: alter or present (data) so as to mislead.
Misuse: use (something) in the wrong way or for the wrong purpose.
Among the given options, 'distort' is the most appropriate synonym for the given word.
100. **Answer: (D)**
The word 'disorganization' means 'lack of proper planning and control'.
Proud: feeling deep pleasure or satisfaction as a result of one's own achievements, qualities, or possessions or those of someone with whom one is closely associated.
Confusion: uncertainty about what is happening, intended, or required.
Easiness: the quality of being comfortable or relaxed, or free from worry or pain.
Pattern: a particular way in which something is done, is organized, or happens.
Jumble: an untidy and confused mixture of things, feelings, or ideas.
Among the given options, 'pattern' is the most appropriate synonym for the given word. Hence, option (d) is the correct answer.