25 YEAR-WISE

IBPS PO

PRELIMS & MAINS

Previous Year Solved Papers (Till Nov 2024)

- Quantitative Aptitude
- Reasoning & Computer Aptitude
- Data Analysis and Interpretation
- English Language
- General, Economy/Banking Awareness

15 PRELIMS PAPERS

10 MAINS PAPERS

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TREND ANALYSIS
IBPS PO PRELIMS & MAINS EXAMS (2024-2020)

SECTIONS NAME		IBPS PO Prelims Exams					IBPS PO Mains Exams				
		2024	2023	2022	2021	2020	2024	2023	2022	2021	2020
Sr. No.	**English Language**										
1.	Spotting Errors	5	3	5	5	3	–	6	2		
2.	Sentence Improvement	–	3	–	5	–	–		3	9	2
3.	Spelling Error and Inappropriate Word	4	–	2	–	–	–		–	4	
4.	Word Arrangement/ Word Swap	–	–	5	4	4	2	5	–	4	4
5.	Word Replacement	–	–	–	–	4	–	–	–	–	–
6.	Idioms and Phrases	3	–	–	–	–	–	–	–	–	–
7.	Word Usage	–	–	–	4	–	–	–	–	–	–
8.	Synonyms & Antonyms	–	–	–	–	–	–	–	3	–	–
9.	Odd One Out Phrases	–	–	–	–	–	–	–	3	–	–
10.	Rearrangement of Sentences	–	5	5	–	4	2	–		–	–
11.	Para Jumble	5	5	–	5			–		–	2
12.	Cloze Test	–	–	–	–	7	5	–	5	5	7
13.	Match the Column	–	–	–	–	–		–		3	
14.	Inference based Questions	–	–	–	–	–	3	–	1		
15.	Starters and Connectors	–	–	–	–	–	4	–			
16.	Reading Comprehension	8	8	8	7	8	15	13	14	10	11
17.	Paragraph Completion	–	–	–	–	–		5			
18.	Sentence Completion	–	–	–	–	–	4		4		
19.	Fill in the Blanks	5	6	5	–	–		6			9
Sr. No.	**Part-A: Quantitative Aptitude**										
1.	Simplification	5	5		–	5					
2.	Number System				–			2			
3.	Number Series	5		5	5	5	5	4	2	2	4
4.	Quadratic Equation		5	5	5	5	2	3		1	
5.	Percentage		1	1		2			1		
6.	Profit & Loss	1	1	1	1	1	1			1	
7.	Ratio and Proportion ans Partnership	6	1		1						
8	Mixture and Alligation	1	1	1	1		1			1	
9.	Problem on Average	1	1								1
10.	Problem on Age			1		2					
11.	Partnership	**1**	**1**	**1**	**1**	**2**		**1**	**1**	**4**	
12.	Time and Work	1	1	1	1	1	1	3		1	

SECTIONS NAME		IBPS PO Prelims Exams					IBPS PO Mains Exams				
		2024	2023	2022	2021	2020	2024	2023	2022	2021	2020
13.	Pipe and Cistern		1								
14.	Simple and Compound Interest	1	1	1	1	1		1			
15.	Speed, Time & Distance				1	1	1		1	1	
16.	Problem on Train	1	1	1	1						3
17.	Boat and Stream	1	1	1	1		1		3		
18.	Mensuration	1	1	1	1		1	2			
19.	Probability	–	–	–	–	–		1	1		1
20.	Data Sufficiency	–	–	–	–	–	2		2	3	2
21.	Quantity Comparison	–	–	–	–	–	4	3	3		
22.	Miscellaneous	–	–	–	–	–					
	Part-B: Data Interpretation										
23.	Tabular Graph	5	5	5	5	5			4	5	
24.	Bar Graph		5	5						5	
25.	Line Graph	5				5		4	3		
26.	Pie Chart	–			5	–	5	4		5	5
27.	Combination DI	–				–			7		6
28.	Missing DI	–				–	3	3			8
29.	Caselet	–	3	5	5	–	4		7		3
30.	New Pattern DI	–				–					2
31.	Arithmetic Based DI	–				–	4	4		6	–
Sr. No.	**Reasoning Ability**										
1.	Alphabet Test	3	2	2	2	2	1	–		–	–
2.	Classification (Odd One Out)	**1**	**1**	**1**	**–**	**–**		**–**		**–**	**–**
3.	Alphabetical Series	–	–	–	–	–	2	–	1	–	–
4.	Coding and Decoding	5	–	–	–	5	1	–	3	–	–
5.	Blood Relation	3	3	3	–	1	3	–	3	–	2
6.	Order and Ranking	3	–	5	–	–	–	–		1	
7.	Direction and Distance	–	–	3	3	–	4	–	3	3	1
8.	Coded Inequality	–	3	3	4	3	–	–	3	2	
9.	Syllogism	–	3	3	4	4	–	–		3	
10.	Sitting Arrangement	10	8	10	8	10	14	12	7	10	12
11.	Puzzle	10	15	5	14	10	5	21	15	18	16
12.	Data Sufficiency	–	–	–	–	–	3	2	3	2	3
13.	Machine Input	–	–	–	–	–	5	5		4	5
14.	Decision Making	–	–	–	–	–					
15.	Statement and Assumption	–	–	–	–	–	1				
16.	Statement and Argument	–	–	–	–	–	1				
17.	Statement and Course of Action	–	–	–	–	–	1		1		
18.	Cause and Effect	–	–	–	–	–			1		
19.	Drawing Inference	–	–	–	–	–			2	1	
20.	Statement and Conclusion	–	–	–	–	–	1			1	
21.	Critical Reasoning	–	–	–	–	–	2	5	3		6
22.	Miscellaneous	–	–	–	–	–	1				

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1 IBPS-PO Mains Solved Paper 2024

REASONING & COMPUTER APTITUDE

1. In the question given below, three conclusions are given followed by five statements. You have to choose the correct set of statements that logically satisfies the given conclusions disregarding the commonly known facts.

Conclusions:

I. Some atoms being matter is a possibility.
II. Few elements are not particles.
III. No matter is molecules.

Statements:

I. Every molecules are atoms. No matter is particle. Only a few elements are matter. Some particles are not molecules.
II. None of the particles are molecules. Half elements are molecules. All matter are atoms. Some atoms are particles.
III. Not a single matter is particle. Only a few elements are matter. All atoms are elements. Very few molecules are particles.
IV. All molecules are Atoms. All matter are atoms. Some particles are elements. No element is molecule.
V. Some particles are molecules. Only a few matter are elements. No particle is atom. Each atom is element.

(*a*) All statements satisfy
(*b*) Both statements II and V
(*c*) Only statement III
(*d*) Both statements I and IV
(*e*) None of the statements satisfy

Directions (2-6): Read the following passage and answer the given questions.

A word and number sorting machine, when given an input of words and numbers, rearranges them in a particular manner step by step, as indicated below, until all the words and numbers are arranged. Given below is an illustration of this arrangement.

Input: 37 50 FGN KZU 74 YNS 51 100 ORS 17 HPBM
Step 1: 100 37 50 FGN KZU 74 YNS ORS 17 HPBM 51
Step 2: 74 100 50 FGN KZU YNS ORS 17 HPBM 51 37
Step 3: 50 74 100 FGN KZU YNS ORS HPBM 51 37 17
Step 4: 50 74 100 EFGNM KZU YNS ORS HPBM 51 37 17
Step 5: 50 74 100 EFGNM GHPBML KZU YNS ORS 51 37 17
Step 6: 50 74 100 EFGNM GHPBML JKZUT YNS ORS 51 37 17
Step 7: 50 74 100 EFGNM GHPBML JKZUT NORSR YNS 51 37 17
Step 8: 50 74 100 EFGNM GHPBML JKZUT NORSR XYNSR 51 37 17

And, step 8 is the last step of the above input, as per the rules followed in the steps given above; find out in each of the following questions the appropriate step for the given input.

Input: ETU 75 GTQ 14 RTV 22 NTS 32 MTW 67 FSN 19 CER

2. How many elements are there between 'RTV' and 'NTS' in the step prior to the penultimate step?
(*a*) None (*b*) One (*c*) Two
(*d*) Three (*e*) Four

3. How many elements are there in between 'BCERQ' and 75 in the step 9?
(*a*) 5 (*b*) 4 (*c*) 8
(*d*) 6 (*e*) 3

4. What is the position of 'EFSNM' in the step 7?
(*a*) Seventh from the left (*b*) Seventh from the right
(*c*) Fifth from the right (*d*) Sixth from the left
(*e*) None of these

5. Which element is second to the left of 'GTQ' in the step 4?
(*a*) BCERQ (*b*) RTV (*c*) MTW
(*d*) 75 (*e*) None of these

6. Which of the following is the last step?
(*a*) 7 (*b*) 9 (*c*) 11
(*d*) 8 (*e*) 10

Directions (7-10): Study the following information carefully to answer the given questions.

An uncertain number of persons are sitting in a straight line facing the north direction. The persons sitting at the odd-numbered positions are Managers and the persons sitting at the even-numbered positions are Associates in different companies.

Both X and Z are seated to the left of U and P, but to the right of Q. There are five persons between J and G. The person sitting fifth to the right of Q is an Associate. Two persons are seated between Q and R. The number of persons sitting between Q and the Manager at the extreme left end is one more than the number of persons sitting between J and P. The number of persons sitting between R and G is the same as the number of persons sitting between X and Z. Four persons are seated between Q and T, who is not seated to the right of R. The Manager at the extreme left end of the row is S. Three Managers are seated between T and X. J sits 3rd to the right of R. The number of persons sitting between Q and R is one more than the number of persons sitting to the right of G. P is the third Associate to the right of J.

7. How many persons are seated between the third Associate to the right of J and the fourth Manager from the extreme right end of the row?
(*a*) 4 (*b*) 5 (*c*) 9
(*d*) 11 (*e*) More than 11

8. Who is seated exactly in the middle of R and the person who sits immediately to the left of Z, if the total number of persons is known and the seating alternates between Managers and Associates?
(*a*) Q (*b*) X (*c*) J
(*d*) Unknown person (*e*) G

9. Which of the following statements is definitely true?
(*a*) The number of persons sitting to the right of Z is equal to the number of persons sitting between Q and R.
(*b*) T is seated to the right of X.
(*c*) S is seated to the right of J.
(*d*) The number of Managers sitting between X and P is more than two.
(*e*) The person is seated 5th to the right of Q is P.

10. What is the position of the one who sits third to the left of the 5th Manager from left end of the row with respect to Q?
(*a*) Third to the right (*b*) Immediate left
(*c*) Second to the left (*d*) Fifth to the right
(*e*) Fourth to the left

11. In the question some symbols –:, #, /, ¥, β and * are used with the following meaning as illustrated below:

'P:Q' means 'Q is father of P'

'P#Q' means 'P is mother of Q'

Arguments:

I. Yes, lifting the ban promotes financial inclusion, but it may also risk exposing users to potential security threats.

II. No, maintaining the ban ensures financial security and protects users from potential fraudulent activities and data breaches.

(*a*) If only I is strong (*b*) If only II is strong
(*c*) If either I or II is strong (*d*) If neither I nor II is strong
(*e*) If both I and II are strong

35. In the following question, there is a statement followed by two assumptions labeled I and II. Examine the statement and determine which of the assumptions is implicit.

Statement: Immigration policies should balance national security concerns with humanitarian values, promoting fair and orderly migration processes, fostering social integration, and addressing economic needs.

Assumptions:

I. Stricter immigration controls are necessary to ensure national security and manage the influx of migrants, while upholding legal immigration pathways.

II. Welcoming and inclusive immigration policies benefit societies by enriching cultural diversity, filling labour gaps, and contributing to economic growth and innovation.

(*a*) Only assumption I is implicit
(*b*) Only assumption II is implicit
(*c*) Either I or II is implicit
(*d*) Neither I nor II is implicit
(*e*) Both I and II are implicit

Directions (36-39): Study the following information carefully and answer the given questions.

Five ships (A, B, C, D, and E) are moored at Dock M, and their captains (P, Q, R, S, and T) are steering their respective ships. Each ship starts from the dock, moves in a specific direction, and covers a certain distance before reaching its final position which is named as ship's captain's name.

Movements of the ships:

I. Ship A, steered by Captain P, starts moving north and covers 5m, then turns left and moves 8m, finally turning right and moving 10m to reach its final position.

II. Ship B, steered by Captain Q, moves east for 12m, then turns right and moves 7m, finally turning right again and moving 3m to its final position.

III. Ship C, steered by Captain R, starts by moving south for 6m, then turns right and moves 5m, then turns left and moves 9m to its final position.

IV. Ship D, steered by Captain S, moves west for 10m, then turns left and moves 4m, finally turning right and moving 6m to its final position.

V. Ship E, steered by Captain T, starts moving north for 8m, then turns right and moves 10m, finally turning right again and moving 5m to its final position.

36. In which direction is S with respect to R in the final position?
(*a*) North (*b*) North-west
(*c*) North-east (*d*) South-west
(*e*) South

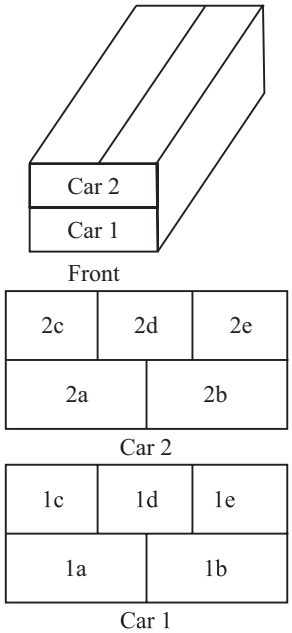
37. What is the total distance covered by Q and R in their journey?
(*a*) 32m (*b*) 22m (*c*) 62m
(*d*) 42m (*e*) Can't be determined

38. Which of the following statements is true?
(*a*) P is in north-east of Q.
(*b*) Shortest distance between P and R is 19m.
(*c*) T is in north-east of Q.
(D) Ship E covered 33m total distance.
(*e*) All are true

39. What is the shortest distance between the initial and final position of ship B?
(*a*) 130 m (*b*) $\sqrt{100}$ m (*c*) 120 m
(*d*) $\sqrt{130}$ m (*e*) None of these

Directions (40-41): Study the following information carefully and answer the given questions.

There are two cars, Car 1 and Car 2, with 9 persons (A to I) traveling. One car has 5 persons, and other car has 4 persons. All of them are facing south as seated in each row of each car. Each car has three seats at the back and two seats at the front, such that one of the back seat in one car is vacant. Also, consecutively named persons are not sitting adjacent to each other (neither beside/front/back nor above/below). Car 2 is placed above the Car 1. The seats are arranged in two rows in each car, with the following seat numbers in each car as shown in the diagram:



A is seated in Car 1, either in seat 1a or 1b. No one is seated between B and E. No one is seated behind E. F is seated in Car 2 and in the same row with B. I is just diagonally above C. No one is to the left of G. D is not seated adjacent to I. The seat just behind C is not vacant. D is not seated in the middle of the row of seats.

40. Who among the following is seated in 1d?
(*a*) H (*b*) D (*c*) G
(*d*) No one (*e*) F

41. Four of the following five are alike in a certain way and thus form a group, then who among the following doesn't belong to that group?
(*a*) F (*b*) B (*c*) C
(*d*) E (*e*) G

Directions (42-45): Read the following information carefully and answer the given questions accordingly.

Eighteen students are divided into six different groups viz., Red, Violet, Brown, Orange, Purple and Olive. They are sitting in a linear row and facing north direction. Each group consists of three students. A, B, C, D, E and F are captains of their groups. The distance between any two adjacent groups is equal. Other group members are G, H, I, J, K, L, M, N, O, P, Q and R.

G, C and P belong to Violet group. Two groups are sitting between Brown and Purple groups. Neither Brown nor Purple group sits at either end. Orange group sits between Brown and Violet groups. Red group is third to the left of Olive group. A and D belong to Olive and Orange group, respectively. D sits to the left of C. Nine members are sitting between B and E, who belongs to Purple group. F is captain of O and M. K and I belong to the same group, but neither Orange nor Purple group. H and L belong to the group that is to the left of D. R is not a member of

Purple group. J and E do not belong to the same group. B doesn't belong to Brown group.

42. How many students are seated to the right of group member O?
(*a*) Three (*b*) Six (*c*) Nine
(*d*) None (*e*) More than nine

43. B and H belong to the _____
(*a*) Brown group
(*b*) Red group
(*c*) Purple and Red groups respectively
(*d*) Olive and Brown groups respectively
(*e*) None of these

44. Which among the following options is the odd from the rest?
(*a*) K and I are in Olive group
(*b*) O and M are in Brown group
(*c*) J and N are in Orange group
(*d*) E and Q are in Purple group
(*e*) B and L are in Red group

45. Which of the following group/groups is/are seated between Red group and Violet group?
(*a*) Both Brown and Purple groups
(*b*) Olive group
(*c*) Orange group
(*d*) None
(*e*) All three (*a*), (*b*), and (*c*)

ENGLISH LANGUAGE

Directions (46-54): Read the following passage and answer the given questions.

Japan is at the forefront of a demographic shift that is reshaping societies worldwide. With one of the most rapidly ageing populations globally, it faces unique challenges and opportunities in maintaining economic vitality and social stability. The Japanese government has developed a multifaceted approach to address these issues, encompassing healthcare, labor market reforms, and community-based initiatives.

As of recent estimates, over 29% of Japan's population is aged 65 or older, making it the world's oldest society. The country's low fertility rate and high life expectancy contribute to this demographic phenomenon. While increased longevity is a testament to advancements in healthcare and living standards, the shrinking working-age population poses economic challenges. Dependency ratios are rising, with fewer workers supporting a growing number of retirees. Healthcare is a cornerstone of Japan's ageing population strategy. The country operates a universal healthcare system that provides affordable and high-quality medical services. However, the growing number of elderly individuals has strained resources. To address this, the government has introduced policies to shift focus from hospital-based care to community-based care. This model emphasizes home healthcare services, enabling older individuals to receive medical attention and support in familiar surroundings. Technological innovation plays a significant role in improving elderly care. Japan has been a pioneer in developing and deploying robotic assistants for caregiving. Robots equipped with artificial intelligence (AI) help with tasks such as lifting patients, providing companionship, and monitoring health conditions. These advancements not only alleviate caregiver burdens but also ensure the elderly can maintain a degree of independence.

The ageing population has also prompted Japan to rethink its labor policies. To mitigate the economic impact of a shrinking workforce, the government is encouraging older individuals to remain employed longer. In 2021, Japan raised the mandatory retirement age for public servants to 65, with further plans to allow workers to continue until 70. Many private companies have followed suit, creating flexible work arrangements to accommodate senior employees. Additionally, the government is actively promoting women's participation in the workforce, addressing a long-standing gender gap. By enhancing access to childcare and promoting equal pay initiatives, Japan aims to unlock the potential of its underutilized human resources. Efforts are also underway to attract foreign workers, albeit at a cautious pace, given Japan's historically conservative approach to immigration. Policies such as the Specified Skilled Worker visa program aim to fill labor shortages in key sectors like healthcare and construction. Japan's pension system faces sustainability challenges due to the increasing ratio of retirees to active contributors. To ensure its viability, the government has implemented several reforms, including raising the pension eligibility age and encouraging private retirement savings. Additionally, public awareness campaigns emphasize the importance of financial planning for old age.

Recognizing the importance of social inclusion, Japan has also invested in community-building initiatives to combat the isolation often experienced by the elderly. Programs such as "Silver Human Resource Centers" offer older individuals opportunities to engage in part-time work or volunteer activities, fostering a sense of purpose and community. Intergenerational programs that bring together youth and seniors are also gaining popularity, promoting mutual understanding and support. Japan has embraced smart city concepts to cater to an ageing society. Urban planning now incorporates features like barrier-free public spaces, accessible transportation systems, and community hubs for elderly residents. Technology-driven solutions such as health monitoring apps and remote consultations have become widespread, ensuring older individuals can easily access healthcare and support services. Despite these efforts, challenges remain. The cost of maintaining an ageing society is immense, and Japan's public debt is among the highest globally. Balancing the needs of the elderly with those of younger generations requires careful policy-making and equitable resource allocation. Furthermore, cultural attitudes towards immigration and gender roles must evolve to fully address labor shortages. Japan's proactive approach to its ageing population provides valuable lessons for other nations facing similar demographic trends. By investing in healthcare, technology, and inclusive policies, Japan demonstrates how an ageing society can adapt and thrive. While challenges persist, the resilience and innovation embedded in Japan's administrative strategies offer hope for a balanced and sustainable future.

This comprehensive approach positions Japan not only to manage its demographic challenges but also to serve as a global leader in addressing the complexities of an ageing world.

46. What can be inferred as the primary reason for Japan's ageing population challenges?
(*a*) High rates of immigration
(*b*) Decreasing fertility rates combined with increasing life expectancy
(*c*) Lack of technological innovation in healthcare
(*d*) Overdependence on foreign workers
(*e*) Declining investments in urban planning

47. Why is Japan encouraging community-based healthcare instead of hospital-based care for the elderly?
(*a*) To reduce healthcare costs and resource strain
(*b*) To increase hospital revenue
(*c*) To eliminate dependency on robotic caregivers
(*d*) To privatize healthcare services
(*e*) To introduce stricter healthcare policies

48. What is a plausible reason for Japan promoting the participation of older individuals in the workforce?
(*a*) To maintain traditional labor practices
(*b*) To offset the economic impact of a shrinking workforce
(*c*) To discourage younger workers from emigrating
(*d*) To attract more foreign investments in technology
(*e*) To align with global retirement age trends

49. Which policy reflects Japan's cautious approach to immigration?
(*a*) Raising the retirement age to 70
(*b*) Promoting gender equality in the workforce
(*c*) The introduction of the Specified Skilled Worker visa program

72. Twitter does not want users to migrate to other platforms through links shared via tweets or retweets to ensure users spend more time on the platform which in turn _____ .
(*a*) short-form content while using recommendations to drive discovery across the platform.
(*b*) which is also actively looking to increase its paid subscriber count.
(*c*) it would no longer allow users to promote their presence on other social media platforms.
(*d*) boosts its position to increase advertising revenue.
(*e*) None of these

73. Financial inclusion, a cornerstone of equitable economic growth, aims to ensure that individuals and communities _____.
(*a*) savings, credit, insurance, and investment opportunities.
(*b*) financial systems that were previously inaccessible.
(*c*) have access to a wide range of financial services and resources.
(*d*) limits their ability to invest in education, healthcare, and entrepreneurship.
(*e*) None of these

74. Climate change remains a critical issue on the global agenda as the world _____.
(*a*) address rising global temperatures and extreme weather events.
(*b*) grapples with its far-reaching implications.
(*c*) focus on renewable energy, carbon neutrality, and nature-based solutions.
(*d*) limit the worst impacts of climate change and protect the planet's ecosystems.
(*e*) None of these

75. Investment and funding are integral components of the financial landscape that significantly impact _____.
(*a*) with the expectation of generating returns over a specific period.
(*b*) entrepreneurial endeavors that exhibit promising growth potential.
(*c*) to facilitate diverse initiatives, projects, or business ventures.
(*d*) economic development, technological innovation, and the realization of various projects.
(*e*) None of these

76. **Direction:** In each of the questions given below, a passage has been given which is either situation based or describes a scenario. Below each passage, a question has been given which is framed to make you infer something out of it. Mark out the correct inference as your answer.

The world will be transformed. By 2050, we will be driving electric cars and flying in aircraft running on synthetic fuels produced through solar and wind energy. New energy-efficient technologies, most likely harnessing artificial intelligence, will dominate nearly all human activities from farming to heavy industry. The fossil fuel industry will be in the final stages of a terminal decline. Nuclear fusion and other new energy sources may have become widespread. Perhaps our planet will even be orbited by massive solar arrays capturing cosmic energy from sunlight and generating seemingly endless energy for all our needs.

Which of the following is true about the role of AI in future clean energy goals?
(*a*) AI will dominate the harnessing of new clean energy.
(*b*) New clean energy will be harnessed with some help from AI.
(*c*) AI will overtake nuclear fusion as a source of clean energy harnessing processes.
(*d*) Both A and B
(*e*) Both B and C

Directions (77-78): the question below contains five scattered segments of a sentence. Indicate the sequence which correctly assembles the segments and completes the sentence.

77. A. lakes, and coastal areas in reducing physical exposure to
B. natural hazards such as floods, landslides
C. or avalanches by serving as buffers
D. there are many experiences around the world which point to the potential
E. benefits of protecting and preserving ecosystems such as wetlands, forests
(*a*) DECBA (*b*) ABCED (*c*) CABDE
(*d*) ABDEC (*e*) DEABC

78. A. Even during the lockdown, people cooped up in homes with less than
B. usual activity were advised by psychologists to take time off
C. and relax in places close to home where one
D. for mental and physical well being.
E. feels less stressed, as it is important
(*a*) DECBA (*b*) ABCED (*c*) CABDE
(*d*) ABDEC (*e*) DEABC

Directions (79-80): Below given is a passage with the 5 words in BOLD. Answer the questinos following the passage.

Rahul and Ananya were excited about the new **zipline** (1) park opening nearby. They had heard about thrilling activities like the **adventure** (2) and rock climbing, which sparked their curiosity. While Ananya was eager to try everything, Rahul felt slightly nervous about **safety** (3). However, Ananya **reassured** (4) him by mentioning the park's focus on **heights** (5) and the presence of trained staff. They decided to visit early in the morning to avoid the long **queues** (6), with Ananya taking charge of booking the tickets online. Both friends looked forward to a day filled with fun and excitement.

79. Find the correct combination of the words that replace each other so as to make the given paragraph contextually and gramatically correct. If the sentence is correct as it is then select option (e) as your choice.
(*a*) 1-4 and 2-3 (*b*) 2-1 and 3-5
(*c*) 2-3 and 4-5 (*d*) 2-4 and 1-5
(*e*) No interchange required

80. What is the synonym of the word adventure?
(*a*) Danger (*b*) Exploration
(*c*) Routine (*d*) Obstacle
(*e*) Boredom

DATA ANALYSIS AND INTERPRETATION

81. Two series I and II given below each have one wrong number P and Q respectively.

Series I: 5, 20, 40, 67, 105, 140, 224

Series II: 13, 20, 30, 98, 119, 334

Find the difference between P and Q ?
(*a*) 24 (*b*) 36 (*c*) 38
(*d*) 42 (*e*) None of these

Directions (82-83): Read the following passage and answer the given questions.

Two algebraic expressions are given as (I) $6x^2 + 29x + P$ and (II) $3x + 1$. (I) is divided by (II) leaving $(2x + 9)$ as quotient and 19 as remainder.

82. Find the value of P.
(*a*) 25 (*b*) 26 (*c*) 27
(*d*) 28 (*e*) None of these

83. What is the value of largest root of equation $6x^2 + 29x + P = 0$?
(*a*) $-1\frac{1}{3}$ (*b*) $\frac{1}{3}$ (*c*) $\frac{2}{3}$
(*d*) $\frac{1}{4}$ (*e*) None of these

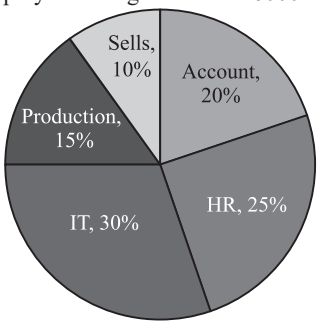
84. Puneet buys 240 articles and labels each with the same marked price. He sells 160 articles initially at 20% discount on the labelled price. Then he sells rest articles at an additional discount of 25% on the discounted price. Thus, he gets total of ₹Z, and makes profit of 10%. When he offered no discount find its profit %.
(*a*) 50% (*b*) 25% (*c*) 20%
(*d*) 33% (*e*) None of these

85. The container X contains 140 liters pure milk. $\frac{250}{7}\%$ of the milk is taken out from the container and 30 liters of water is added in it and then another 40% of the mixture is taken out. If another container Y has 80 liters of mixture in which 62.5% is milk and remaining soda, then find the final quantity of water in container X is what percent of quantity of soda in container Y ?
(*a*) 65% (*b*) 60% (*c*) 75%
(*d*) 25% (*e*) None of these

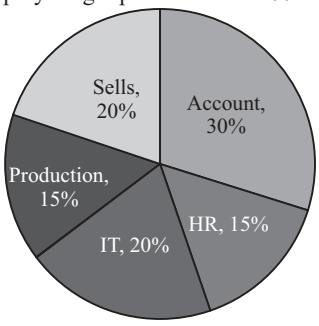
Directions (86-90): Read the following passage and answer the given questions.

Study the following given pie - charts carefully and answer the questions given below. The first pie chart represents the breakup of the number of employees working in different departments of an organization and the second pie chart represents the distribution of promotion of employees.

Total number of employees in organization = 6000



Total number of employees got promotion = 1200



86. If the number of female employees who were promoted in HR department were 120 and the ratio of male and female employees in HR department is 7 : 5, then the ratio of the total number of male employees in the HR department to the number of male employees promoted in the same department was:
(*a*) 105 : 8 (*b*) 112 : 15 (*c*) 145 : 11
(*d*) 175 : 12 (*e*) None of these.

87. If the ratio of number of male employees to the female employees in the production department is 2 : 3 and the ratio of number of male employees to female employees who get promotions in the same department is 4 : 5, then what percent of the female employees get promotions in the production department?
(*a*) 18.52% (*b*) 21.50% (*c*) 22.50%
(*d*) 25% (*e*) 33.33%

88. The difference between the percentage of the number of employees, who get promotions from the HR department and IT department is:
(*a*) 0.50% (*b*) 0.75% (*c*) 1.25%
(*d*) 1.33% (*e*) 1.60%

89. The total number of employees promoted in the Account, IT, and Sells department together is what percent of the total number of employees in these departments?
(*a*) 18.33% (*b*) 23.33 % (*c*) 22.02 %
(*d*) 33.13 % (*e*) None of these

90. What is the difference between the average number of employees who were promoted in the IT, Production, and Sells departments and the average of number of total employees in these three departments?
(*a*) 540 (*b*) 740 (*c*) 880
(*d*) 950 (*e*) 1250

91. A bag contains some balls of three different colours. Probability of drawing a blue colour ball is $\left(\frac{5}{24}\right)$ and the ratio of red to green colour balls is 9 : 10. What is the total number of balls in the bag?
I. Average of total number of balls of all the three colours is 8.
II. Two balls are drawn randomly from the bag and probability that both the balls are green is $\frac{15}{92}$.
III. One ball is drawn at random from the bag and the probability that the ball is either blue or red is $\left(\frac{7}{12}\right)$.
(*a*) Either I alone or III alone is sufficient.
(*b*) Either I alone or II alone is sufficient.
(*c*) Either II alone or III alone is sufficient.
(*d*) Any one of them alone is sufficient.
(*e*) Any two of them together are sufficient.

92. Question below is followed by three statements I, II and III. You have to determine whether the data given in the statement is sufficient for answering the question.

y litres mixture of milk and water contains milk and water in the ratio *a* : *b* respectively. The milkman sold *z* litres of the mixture and added 10 litres of pure milk and 8 litres of water to the remaining mixture such that the ratio of milk and water in the final mixture became 5 : 4 respectively. Find the respective ratio of amount of milk in the initial mixture and amount of milk in the final mixture.

Statement I: A 54 litres mixture of syrup and water contains syrup and water in the ratio *a* : *b* respectively. If 10 litres of syrup and 6 litres of water is added to the mixture, the ratio of syrup and water becomes 4 : 3 respectively.

Statement II: A 60 litres mixture of milk and water contains milk and water in the ratio 7 : 5 respectively. If *z* litres of the mixture is replaced with water, the ratio of milk and water in the mixture becomes 7 : 23 respectively.

Statement III: $y = 3z$
(*a*) Only I and II together (*b*) Either I or II and III together
(*c*) Any two of the three (*d*) All I, II and III together
(*e*) Cannot be answered even after combining all the three statements

93. Time taken by the boat in river A to cover (D + 120) km in downstream is 25% more than the time taken by the same boat to cover (D – 80) km in upstream in river B. The speed of the stream in river B is 20% less than the speed of stream in river A. Ratio of the speed of the boat to the speed of the stream in river A is 9 : 5. Find the value of (D + 40) if the speed of the boat is constant.
(*a*) 160 (*b*) 200 (*c*) 240
(*d*) 280 (*e*) None of these

(*a*) Quantity I > Quantity III > Quantity II
(*b*) Quantity II > Quantity III > Quantity I
(*c*) Quantity III < Quantity II < Quantity I
(*d*) Quantity II < Quantity I < Quantity III
(*e*) Quantity I = Quantity II < Quantity III

111. Directions: In the following question, two quantities I and II are given. Compare quantity I and quantity II on its basis. (Only quantity is to be considered).

Two series A and B are given below with one wrong term in series.

A: 3, 8, 24, 45, 120, 168

B: 28, 42, 56, 98, 154, 182

Quantity I: Average of wrong terms of both the series.

Quantity II: Difference between the next term of series A and the next term of series B.

(*a*) Quantity I > Quantity II (*b*) Quantity I < Quantity II
(*c*) Quantity I ≥ Quantity II (*d*) Quantity I ≤ Quantity II
(*e*) Quantity I = Quantity II or No relation

Directions (112-115): Read the following information carefully and answer the given questions.

Some recruitment is done by three companies, i.e., P, Q and R. The number of vacancies in company P, Q, and R are 6, 12 and 2 respectively. The number of candidates, who got interview call for per vacancy in company P, Q and R are 60, 6*x* and 4*x* respectively. The total number of candidates applied in company R is 25% of the total number of candidates, applied in the company Q and three fifth of the total number of candidates applied in the company P. The difference between the number of candidates, who got interview calls in the company Q and R is 320.

112. What is the total number of candidates applied in company Q?
(*a*) 450 (*b*) 600 (*c*) 300
(*d*) Can't be determined (*e*) None of these

113. The number of candidates applied in company R is what percentage of the number of candidates applied in company P?
(*a*) 75% (*b*) 50% (*c*) 60%
(*d*) 80% (*e*) None of these

114. In company P, out of the total number of candidates who got interview call 40% are female and company P allotted its posts to male and female in the ratio of 2 : 1 respectively, then find the number of females who did not get the job in company P.
(*a*) 142 (*b*) 90 (*c*) 62
(*d*) 150 (*e*) None of these

115. If the difference between the total number of candidates applied in company P and company R is 160, then find the number of candidates, who did not get interview call from company Q.
(*a*) 900 (*b*) 960 (*c*) 1050
(*d*) 600 (*e*) None of these

GENERAL, ECONOMY/BANKING AWARENESS

116. What is the maximum limit for UPI123 Pay and UPI Lite Wallet transactions respectively?
(*a*) ₹15,000 for UPI123 Pay, ₹7,000 for UPI Lite Wallet
(*b*) ₹10,000 for UPI123 Pay, ₹5,000 for UPI Lite Wallet
(*c*) ₹12,000 for UPI123 Pay, ₹6,000 for UPI Lite Wallet
(*d*) ₹5,000 for UPI123 Pay, ₹10,000 for UPI Lite Wallet
(*e*) ₹8,000 for UPI123 Pay, ₹4,000 for UPI Lite Wallet

117. What is the implementation period for the National Green Hydrogen Mission (NHM)?
(*a*) 2023-2025 (*b*) 2023-2030
(*c*) 2024-2032 (*d*) 2025-2030
(*e*) 2024-2035

118. Which company manufactures the Vande Bharat train in India?
(*a*) Hindustan Aeronautics Limited (HAL)
(*b*) Tata Motors
(*c*) Integral Coach Factory (ICF)
(*d*) Bharat Heavy Electricals Limited (BHEL)
(*e*) Larsen & Toubro (L&T)

119. What is the interest rate for the Sukanya Samriddhi Scheme for the quarter from October 1, 2024, to December 31, 2024?
(*a*) 7.1% (*b*) 7.5% (*c*) 8.2%
(*d*) 7.7% (*e*) 4.0%

120. Where has HDFC Bank recently opened its first branch as part of its international expansion strategy?
(*a*) Dubai (*b*) London (*c*) New York
(*d*) Singapore (*e*) Tokyo

121. What is the Return on Assets (RoA) for Scheduled Commercial Banks (SCBs) as of March 2024, according to the 29th issue of the Financial Stability Report (FSR) released by the Reserve Bank of India (RBI)?
(*a*) 1.0 percent (*b*) 1.3 percent
(*c*) 1.5 percent (*d*) 2.0 percent
(*e*) 2.5 percent

122. Which public sector bank recorded the highest profit in FY 2024?
(*a*) State Bank of India (*b*) Bank of Maharshtra
(*c*) Bank of Baroda (*d*) Union Bank of India
(*e*) Indian Bank

123. What is India's rank in the 2024 Global Nature Conservation Index (NCI) developed by the Goldman Sonnenfeldt School of Sustainability and Climate Change at Ben-Gurion University and BioDB.com, a biodiversity database?
(*a*) 156th (*b*) 167th (*c*) 176th
(*d*) 178th (*e*) 180th

124. Who is the present Union Minister of Agriculture and Rural Development?
(*a*) Narendra Singh Tomar (*b*) Giriraj Singh
(*c*) Shivraj Singh Chauhan (*d*) Manohar Lal Khattar
(*e*) Parshottam Rupala

125. In November 2024, the Ministry of Railways planned to cover over 66,000 route km (rkm) out of its total network with the indigenous Automatic Train Protection (ATP) system named Kavach, by _____.
(*a*) 2025 (*b*) 2028 (*c*) 2027
(*d*) 2030 (*e*) 2035

126. What is the Paid-up- Capital of the Reserve Bank of India?
(*a*) 5 crore (*b*) 10 crore (*c*) 15 crore
(*d*) 20 crore (*e*) 50 crore

127. Under Basel III, what is the minimum Common Equity Tier 1 (CET1) capital requirement for banks in India?
(*a*) 4.5% (*b*) 6% (*c*) 8%
(*d*) 10.5% (*e*) 12%

128. Where will the Hockey Women's Asian Champions Trophy 2024 be held?
(*a*) Ranchi, Jharkhand (*b*) New Delhi, India
(*c*) Rajgir, Bihar (*d*) Bangalore, Karnataka
(*e*) Mumbai, Maharashtra

129. The maximum limit of SLR in India is _____.
(*a*) 40% (*b*) 20% (*c*) 25%
(*d*) 36% (*e*) 50%

130. In India, what percentage is set as the Priority Sector Lending (PSL) goal for Small Finance Banks (SFBs)?
(*a*) 50% (*b*) 60% (*c*) 65%
(*d*) 75% (*e*) 80%

131. Which of the following banks has recently unveiled a research study named 'Of the Women, By the Women, For the NATION'

highlighting the evolving dynamics of Self-Help Groups (SHGs) in India and delves into the patterns of credit utilisation and digital behaviours among SHGs, their members, and the emerging group known as 'Lakhpati Didis'?
(*a*) State Bank of India (*b*) Indian Bank
(*c*) Union Bank of India (*d*) Canara Bank
(*e*) Bank of Baroda

132. Railway Minister Ashwini Vaishnaw reviewed the trial of the Automatic Train Protection System, 'Kavach', and oversaw the upgrades made to the system. In how many different emergency situations did the Kavach system function as expected during the trial?
(*a*) 3 (*b*) 5 (*c*) 7
(*d*) 10 (*e*) 4

133. What action has the RBI instructed the four NBFCs—Asirvad Micro Finance Ltd, Arohan Financial Services Ltd, DMI Finance Pvt Ltd, and Navi Finserv Ltd— to take as part of the imposed restrictions?
(*a*) Halt loan recovery operations
(*b*) Cease and desist from sanctioning and disbursing loans
(*c*) Shut down their operations permanently
(*d*) Reduce interest rates on existing loans
(*e*) Merge with larger NBFCs

134. What is the name of the new large language model (LLM) introduced by Meta at Meta Connect 2024?
(*a*) Llama 3.0 (*b*) Llama 3.2
(*c*) Llama Vision (*d*) Llama AI
(*e*) Meta Vision Llama

135. What is the new position limit for trading members in index futures and options as announced by SEBI?
(*a*) ₹5,000 crore or 10% of total open interest, whichever is higher
(*b*) ₹7,500 crore or 15% of total open interest, whichever is higher
(*c*) ₹6,000 crore or 12% of total open interest, whichever is higher
(*d*) ₹7,000 crore or 14% of total open interest, whichever is higher
(*e*) ₹7,500 crore or 20% of total open interest, whichever is higher

136. India and which country signed a Memorandum of Implementation (MoI) for the co-development of the UNICORN (Unified Complex Radio Antenna) mast designed to enhance the stealth characteristics of warships and will be fitted on Indian Naval warships?
(*a*) Japan (*b*) Germany (*c*) Australia
(*d*) Spain (*e*) France

137. What is the loan amount provided by the International Finance Corporation (IFC) to Axis Bank for blue finance and green projects in India?
(*a*) $300 million (*b*) $400 million
(*c*) $500 million (*d*) $600 million
(*e*) $700 million

138. What is the total outlay approved by the Union Cabinet for the seven schemes aimed at improving farmers' lives?
(*a*) ₹10,500 crore (*b*) ₹12,000 crore
(*c*) ₹14,235.30 crore (*d*) ₹16,500 crore
(*e*) ₹20,000 crore

139. What is the prize money for the Booker Prize 2024?
(*a*) £40,000 (*b*) £45,000 (*c*) £50,000
(*d*) £60,000 (*e*) £75,000

140. The India Space Research Organization's Pushpak mission is associated with _____.
(*a*) Developing a manned lunar exploration program
(*b*) Establishing a space station
(*c*) Developing a reusable launch vehicle (RLV)
(*d*) Building interplanetary spacecraft
(*e*) Conducting Mars and Venus exploration

141. As per the guidelines of the Reserve Bank of India, what is the ongoing minimum percentage for the Capital to Risk-weighted Assets Ratio (CRAR) that Cooperative Banks (UCBs) must uphold?
(*a*) 3 percent (*b*) 5 percent
(*c*) 6 percent (*d*) 7 percent
(*e*) 9 percent

142. Gross Merchandise Value (GMV) of the Government e-Marketplace (GeM) during the financial year FY24 was ₹4 trillion. What percentage of the total order value on GeM during FY24 was contributed by Micro and Small Enterprise (MSE) sellers?
(*a*) 25.63% (*b*) 35.71% (*c*) 45.82%
(*d*) 49.37% (*e*) 55.24%

143. Which among the following is not one of the promoters of the National Centre for Financial Education (NCFE), created for the promotion of financial education across India as per the National Strategy of Financial Education?
(*a*) Reserve Bank of India (RBI)
(*b*) Securities and Exchange Board of India (SEBI)
(*c*) Insurance Regulatory and Development Authority of India (IRDAI)
(*d*) Pension Fund Regulatory and Development Authority (PFRDA)
(*e*) Employees' Provident Fund Organization.

144. What company has received approval for its merger with North East Small Finance Bank (NESFB)?
(*a*) Razorpay (*b*) Paytm
(*c*) Slice (*d*) PhonePe
(*e*) Zomato

145. Which of the following is NOT one of the five pillars of the Reserve Bank of India's (RBI) Payments Vision 2025?
(*a*) Integrity (*b*) Innovation
(*c*) Internationalization (*d*) Incorporation
(*e*) Institutionalisation

146. What is the expected launch timeline for India's Venus Orbiter Mission (VOM) unofficially referred to as "Shukrayaan"?
(*a*) March 2024 (*b*) March 2025
(*c*) March 2028 (*d*) June 2029
(*e*) September 2030

147. As per the Reserve Bank of India (RBI) regulations, the minimum Net Owned Fund (NOF) requirement for NBFC-Micro Finance Institutions (NBFC-MFIs) is:
(*a*) ₹2 Crore (*b*) ₹3 Crore (*c*) ₹5 Crore
(*d*) ₹7 Crore (*e*) ₹10 Crore

148. Who is the director of the film "Laapataa Ladies", India's official entry for the Oscars?
(*a*) Kiran Rao(*b*) Amir Khan (*c*) Karan Johar
(*d*) Rajkumar Hirani (*e*) Frahan Akhtar

149. Which has become the first foreign university to receive approval of the International Financial Services Centres Authority (IFSCA) to set up an International Branch Campus (IBC) in GIFT-IFSC, GIFT City, Gujarat?
(*a*) Deakin University, Australia
(*b*) National University of Singapore (NUS)
(*c*) Tokyo University, Japan
(*d*) RMIT University
(*e*) Bandung Institute of Technology, Indonesia

150. Which state is the top performer in terms of the number of micro, small, and medium enterprises (MSMEs) in India as of March 2024?
(*a*) Uttar Pradesh (*b*) Maharashtra
(*c*) Tamil Nadu (*d*) Gujarat
(*e*) Rajasthan

151. Consider the following statements regarding budget allocation for Renewable Energy:

I. The budget allocated ₹19,100 crore for the Ministry of New and Renewable Energy.
II. The allocation for the solar energy sector was ₹10,000 crore, reflecting an increase of 110% from ₹4,757 crore in the previous fiscal year (2023-24).
III. The PM Surya Ghar Muft Bijli Yojana (PMSGMBY) was announced to boost RTS penetration in India, with a total budget of ₹75,000 crore until 2027.

Which of the statements given above is/are correct?
(*a*) I and II only (*b*) I and III only
(*c*) II and III only (*d*) All I, II and III
(*e*) I only

152. 'Incoterms', the short form of International Commercial Terms, is a registered trademark of the _____, comprising a standardized set of terms/rules used in E-Commerce/Trade.
(*a*) NASSCOM
(*b*) World Trade Organization (WTO)
(*c*) International Chamber of Commerce (ICC)
(*d*) International Monetary Fund (IMF)
(*e*) World Economic Forum (WEF)

153. What does the "R" in LIDAR stand for?
(*a*) Radar (*b*) Reflection (*c*) Recognition
(*d*) Remote (*e*) Ranging

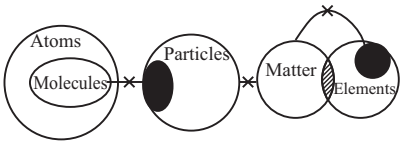
154. What is the minimum capital requirement for setting up a Small Finance Bank (SFB) in India?
(*a*) ₹50 crore (*b*) ₹100 crore
(*c*) ₹200 crore (*d*) ₹500 crore
(*e*) ₹1000 crore

155. Which company has secured orders from two regional banks — Kerala Gramin Bank and Karnataka Gramin Bank — for its banking Superapp and digital transformation?
(*a*) Network People Services Technologies Limited (NPST)
(*b*) Tata Consultancy Services (TCS)
(*c*) Infosys Limited
(*d*) Wipro Limited
(*e*) HCL Technologies

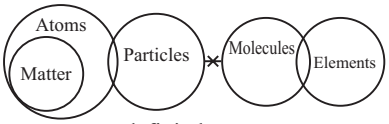
❖ ❖ ❖

Answer Key & Solutions

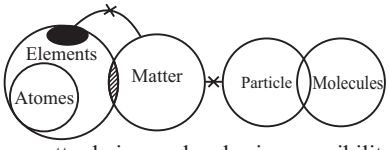
1. (*e*) According to the question,
From statement I:



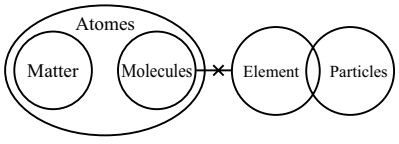
There is no direct relation between matter and molecules.
From statement II:



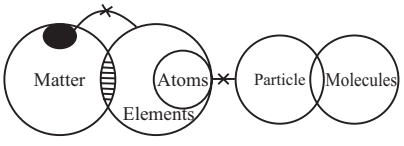
Some atoms are definitely matter
From statement III:



Some matter being molecules is a possibility.
From statement IV:



Some atoms are definitely matter.
From statement V:



There is no direct relation between matter and molecules.
Therefore, none of the statements satisfy the given conclusions..

Solutions (2-6):

Numbers: Even numbers are arranged in decreasing order from the left end and odd numbers are arranged in decreasing order from the right end simultaneously.

Words: Words are arranged in alphabetical order by adding previous letter of first alphabet to the left side of the word and by adding previous letter of the last alphabet to the right side of the word.

Input: ETU 75 GTQ 14 RTV 22 NTS 32 MTW 67 FSN 19 CER

Step 1: 32 ETU GTQ 14 RTV 22 NTS MTW 67 FSN 19 CER 75

Step 2: 22 32 ETU GTQ 14 RTV NTS MTW FSN 19 CER 75 67

Step 3: 14 22 32 ETU GTQ RTV NTS MTW FSN CER 75 67 19

Step 4: 14 22 32 BCERQ ETU GTQ RTV NTS MTW FSN 75 67 19

Step 5: 14 22 32 BCERQ DETUT GTQ RTV NTS MTW FSN 75 67 19

Step 6: 14 22 32 BCERQ DETUT EFSNM GTQ RTV NTS MTW 75 67 19

Step 7: 14 22 32 BCERQ DETUT EFSNM FGTQP RTV NTS MTW 75 67 19

Step 8: 14 22 32 BCERQ DETUT EFSNM FGTQP LMTWV RTV NTS 75 67 19

Step 9: 14 22 32 BCERQ DETUT EFSNM FGTQP LMTWV MNTSR RTV 75 67 19

Step 10: 14 22 32 BCERQ DETUT EFSNM FGTQP LMTWV MNTSR QRTVU 75 67 19

2. (*a*) Clearly, there is no element between 'RTV' and 'NTS' in the step 8.

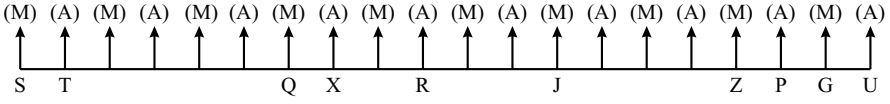
3. (*d*) Clearly, 6 elements are there between BCERQ and 75 in the step 9.

4. (*d*) Clearly, 'EFSNM' is sixth from the left in the step 7.

5. (*a*) Clearly, 'BCERQ' is second to the left of 'GTQ' in the step 4.

6. (*e*) Clearly, step 10 is the last step.

Solutions (7-10):



7. (*a*) 4 persons are seated between P, the third Associate to the right of J and J, the fourth Manager from the extreme right end of the row.

8. (*c*) J is seated exactly in the middle of R and the person, who sits immediately to the left of Z.

9. (*d*) The number of Managers sitting between X and P is more than two is definitely true.

10. (*b*) Immediate left is the position of the one who sits third to the left of the 5th Manager from left end of the row with respect to Q.

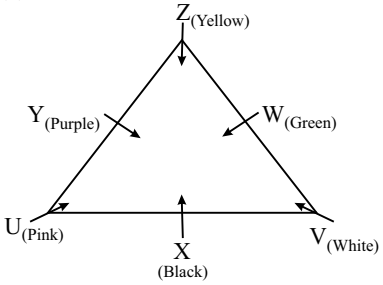
11. (*d*) From option (*a*), L would be brother of C, so L would be male, so option (*a*) can be eliminated.
In option (*b*) and (*c*), L is sister of X, so both can be eliminated.

In option (*d*),

L(–)=G(+)—X(+)=C(–)

So, L is sister-in-law of X.

12. (*a*) From I, II and III:



W likes Green colour.

Hence, data in statements I, II and III together are sufficient to answer the question.

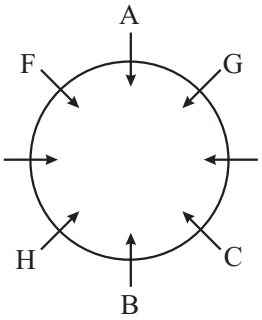
13. (*a*) By combining statements I, II & III:

X S Q R P T W U V

So, three persons sit between P and V.

Hence, statements I, II and III together are sufficient to answer the question.

14. (*b*) From statements I, II and III:



But, position of D and E can't fix as C is not an immediate neighbour of D and F sits between E and A.

So, on combining the given statements we cannot find the answer.

15. (*b*) From I, II and III:

Words	Code
Ninja	cd
Turtle	mn
Game	dk
Famous	ef
In	pq
The/world	lm/dt
Now	Ex

As, exact word for code 'dt' can't find.

Hence, data in statements I, II and III are not sufficient to answer the question.

16. (*c*) Word: C O L L A B O R A T I O N

Arrangement: B P K K B A P Q B S J P M

Word: D E T E R M I N A T I O N

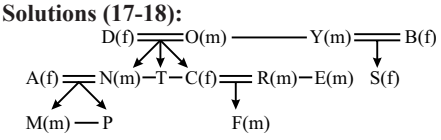
Arrangement: E F S F Q N J N B S J N N

Combined: A Ⓑ B B Ⓑ E F F J J J K K M N N N N P P P Q Q S S S

Left → 2nd → 3rd Right

Hence, B is 3rd to the right of the 2nd letter from the left end.

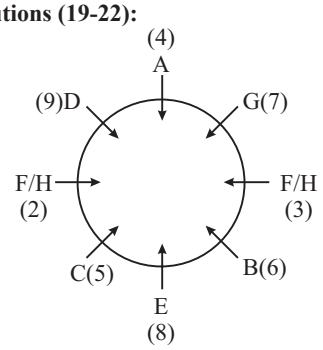
Solutions (17-18):



17. (*c*) S is the niece of O.

18. (*a*) N is the brother-in-law of R.

Solutions (19-22):



19. (*d*) G and the person holding card numbered 3 are seated adjacent to each other is the correct statement.

20. (*e*) Either F or H is seated immediately to the left of the person holding the card numbered 7, so the answer is can't be determined.

21. (*d*) The card number held by the person seated opposite to B is 9.

22. (*d*) If the sum of the card numbers held by A and H is 7, then the difference between the card numbers held by C and the one who is sitting second to the left of E is

= 5 – 2 = 3.

As card numbered of H is = 7 – 4 = 3.

Solutions (23-24):

The given arrangement,

& F A # L K 4 $ 9 G P @ 8 B S M @ € 5 D % L β K 4 A 9 @S W ¥ 6 B & 8 # J

After applying step I, we get:

& # % β @ # F A L K 4 $ 9 G P @ 8 B S M @ € 5 D L K 4 A 9 S W ¥ 6 B & 8 J

After applying step II, we get:

& # % β @ # F A L K 4 $ 9 G @ 8 B S @ € 5 D L K 4 A 9 S ¥ 6 & 8 J B M P W

After applying step III, we get:

& # % β @ # F A L K 4 9 9 8 6 5 4 $ G @ B S @ € D L K A S ¥ & 8 J B M P W

After applying step IV, we get:

4 9 9 8 6 5 4 $ G @ B S @ € D L K A S ¥ & 8 J B M P W& # % β @ # F A L K

23. (*e*) Sixteen elements are between two A's after applying step IV.

24. (*d*) The 21 element from the left end is '&', 7 element to the left of '&' is '€'.

Solutions (25-26):

25. (*a*) **Statement I:** Follows (The passage explicitly states that Microsoft and OpenAI have formed a strategic alliance to advance the frontier of AI research and development, supporting the conclusion that they have joined forces for this purpose.)

Statement II: Follows (The passage mentions that the partnership leverages Microsoft's vast resources and technological prowess, alongside OpenAI's cutting-edge AI research, supporting the conclusion that their collaboration combine these respective strengths.)

Statement III: Doesn't follow (The passage does not specify the focus of the partnership on consumer-oriented AI products and services. Instead, it mentions collaborations aimed at tackling complex challenges across various domains, suggesting a broader scope beyond consumer-oriented applications.)

Hence, Only I and II follow.

26. (*a*) **Statement I:** Follows (The passage mentions collaborations on projects aimed at tackling complex challenges across various domains, suggesting that expanding the scope of collaborative projects to address global challenges aligns with their partnership objectives.)

Statement II: Doesn't follow (The passage does not indicate that the partnership's primary objective is commercialization for profit-driven ventures. Instead, it highlights collaborations on projects aimed at pushing the boundaries of AI capabilities and addressing societal challenges.)

Statement III: Doesn't follow (There is no indication in the passage that collaborative efforts between Microsoft and OpenAI should be discontinued due to conflicting research priorities or organizational objectives. Instead, it emphasizes their partnership in advancing AI research and development.)

Hence, only I follows.

27. (*b*) However, when trying to create a valid word using all five letters D, U, T, M, S, there is no common meaningful English word that uses all five letters exactly once.

Solutions (28-32):

Dates (March)	Persons
20	D
21	A
22	Vacant
23	C
24	Vacant
25	B
26	Vacant
27	E
28	F

28. (*e*) 24th and 26th are vacant dates.

29. (*b*) D was born on 20th March.

30. (*d*) No one was born between B and C.

31. (*c*) D was born before C is true statement.

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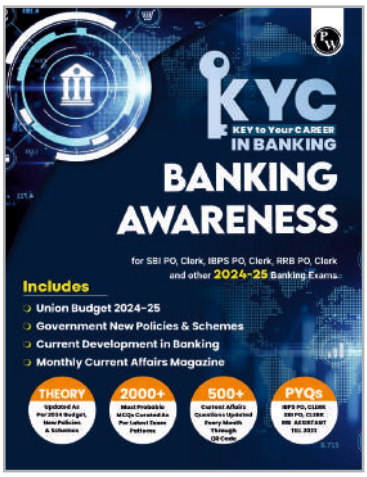

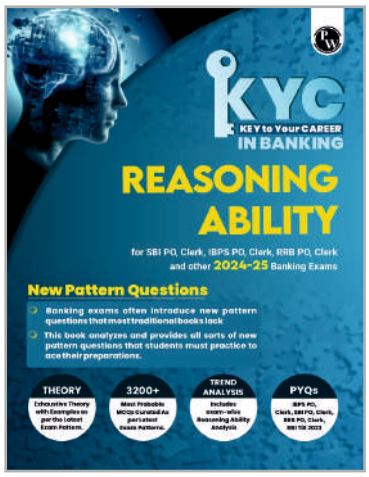

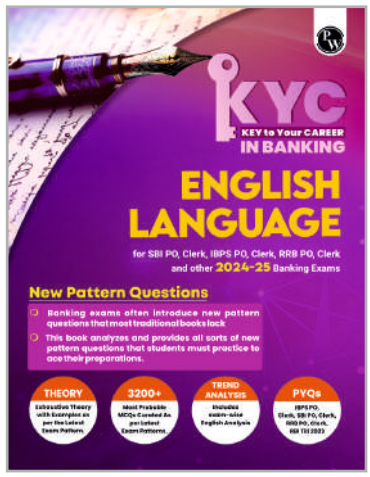

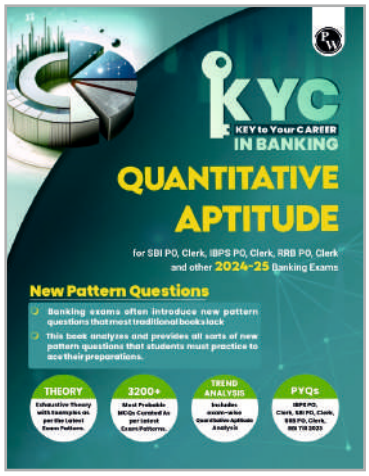

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