

Junior Associates 2025-26 Pre-Examination Training for eligible Candidates: Reasoning Ability & Computer Aptitude - Set 1

SR	Question	Option1	Option2	Option3	Option4	Option5	Ans	Explanation
1	In the following question, select the related number from the given alternatives. 15:230::11:?	121	126	197	220	253	2	$15 \times 15 + 5 = 230$ Similarly $11 \times 11 + 5 = 126$
2	<b>Question:</b> If 'RING' is coded as 'TQJH', how would 'MAY' be coded?	OCA	OCB	NCA	ODA	<b>OAC</b>	1	Solution: Each letter is shifted forward by 2 positions in the alphabet: $M \rightarrow O, A \rightarrow C, Y \rightarrow A.$
3	Five people - P, Q, R, S, and T - are sitting in a row facing north. Q sits to the immediate right of R. Only one person sits between R and T. S does not sit at any of the extreme ends. Who are the immediate neighbors of T?	P and R	Q and S	R and S	P and Q	Cannot be determined	2	Q sits to the immediate right of R. This means R must be followed by Q: [R, Q, _, _, _] Only one person sits between R and T. Since Q is immediately to the right of R, T cannot be immediately next to R. Thus, T must sit two positions away from R. This gives us two possibilities: [R, Q, T, _, _] or [_, _, R, Q, T] S does not sit at any of the extreme ends. This means S cannot be in the first or last position. Let's look at our possibilities: For [R, Q, T, _, _]: S cannot be at the end, so S must be in the 4th position, leaving P for the last position: [R, Q, T, S, P]

								<p>For [_, _, R, Q, T]: S cannot be at the end, so S must be in the 2nd position, leaving P for the first position: [P, S, R, Q, T]</p> <p>However, the second arrangement would not satisfy the "only one person sits between R and T" because there would be two people (P and S) between R and T. Therefore, we discard this possibility.</p> <p>Our final arrangement must be:</p> <p>[R, Q, T, S, P]</p> <p>Immediate neighbours of T: The person to the immediate left of T is Q. The person to the immediate right of T is S.</p> <p>So, the immediate neighbors of T are Q and S.</p>
5	<p>Arrange the given words in the sequence in which they occur in the dictionary.</p> <ol style="list-style-type: none"> <li>1. Democratic</li> <li>2. Demographic</li> <li>3. Detention</li> <li>4. Density</li> <li>5. Decent</li> </ol>	52143	53124	51243	51234	12345	3	<p>Decent (5) – Democratic (1) – Demographic(2) – Density (4) – Detention (3)</p>

6	If * means '-', / means '+', + means 'x' and - means '/', then what is the value of $16 / 4 * 5 - 3 + 2$ ?	20.33	21.00	19.00	19.33	None of these	4	After substituting the symbols: $16 + 4 \times 5 / 3 \times 2$ $16 + 20 / 3 \times 2$ $16 + 20 / 6$ $16 + 10/3$ $16 + 3.33$ 19.33
7	In a row of girls, if Sita who is 15th from the left and Gita who is 18th from the right interchange their positions, Sita becomes 21st from the left. How many girls are there in the row?	37	38	39	40	None of these	2	Sita is initially 15th from the left. Gita is initially 18th from the right. When they interchange positions, Sita becomes 21st from the left. We need to find the total number of girls in the row. Let's denote this total number as $N$ .  Step 1: Relation between Sita and Gita's positions When Sita and Gita interchange positions:  Sita moves to Gita's position, which is 18th from the right. Sita's new position (after swapping) is given as 21st from the left. The total number of girls in the row can be calculated as:  $N = (\text{Position of Sita from the left after swapping})$

								+(Position of Gita from the right after swapping) -1 N=(Position of Sita from the left after swapping) +(Position of Gita from the right after swapping) -1 Substitute the given values:  $N=21+18-1$ $N=21+18-1$ $N=38$
8	If $14+10=1405$ , $7+8=565$ , then $13+11=?$	1445	1655	1435	1023	103	3	$14+10=14*10=140—1405$ Similarly $7+8=7*8=56—565$ So $13+11=13*11=143---1435$
9	If 'pen' is called 'book', 'book' is called 'slate', 'slate' is called 'window' and 'window' is called 'door', what do children write on	Book	Slate	Window	Door	Pen	3	Here, 'pen' is called 'book'. 'Book' is called 'slate'. 'Slate' is called 'window'. 'Window' is called 'door'.  So, if we follow the chain:  Pen (original) -> 'book' -> 'slate' -> window -> 'door'.  Thus, children write on what is now called window in this coded language.

								You are correct, the answer should indeed be window.
10	A, B, C, D, and E - live in a five-story building. Each person lives on a different floor. A lives above B. C lives below D. E lives on the top floor. B does not live on the ground floor. Who lives on the second floor	A	B	C	D	Cannot be determined	A	<p><b>Information Provided:</b>  <b>A lives above B.</b>  <b>C lives below D.</b>  <b>E lives on the top floor.</b>  <b>B does not live on the ground floor.</b></p> <p><b>Step 1: Assign the floors</b>  The building has five floors: 1 (ground floor), 2, 3, 4, and 5 (top floor).  Each person lives on a different floor.</p> <p><b>Step 2: Place E</b>  Since <b>E lives on the top floor</b>, E must live on floor 5.</p> <p><b>Step 3: Position A and B</b>  <b>A lives above B.</b>  <b>B does not live on the ground floor.</b>  Therefore, B must live on floor 2, 3, or 4, and A must live on a floor above B.</p> <p><b>Step 4: Position C and D</b>  <b>C lives below D.</b>  Since E is on floor 5, D must live on floor 4 or below,  and C must live on a floor below D.</p> <p><b>Step 5: Satisfy all conditions</b>  Let's place the residents floor by floor:  <b>Floor 5:</b> E (given).</p>

								<p>Since <b>A lives above B</b>, and the only floors left above floor 2 are floors 3 and 4, let's place <b>A on floor 4</b> and <b>B on floor 2</b>.  <b>C lives below D</b>. The only remaining floors are floors 1 and 3. Thus, <b>D lives on floor 3</b>, and <b>C lives on floor 1</b>.  <b>Final Arrangement:</b>  <b>Floor 1:</b> C  <b>Floor 2:</b> B  <b>Floor 3:</b> D  <b>Floor 4:</b> A  <b>Floor 5:</b> E  <b>Answer:</b>  <b>B lives on the second floor.</b></p>
11	2, 6, 12, 20, 30, ?	40	42	49	35	56	2	<p>The sequence is:  <math>(1 \times 2) = 2</math>  <math>(2 \times 3) = 6</math>  <math>(3 \times 4) = 12</math>  <math>(4 \times 5) = 20</math>  <math>(5 \times 6) = 30</math>  <math>(6 \times 7) = 42</math></p>
12	<b>Question:</b> <b>Statements:</b> All pens are pencils.	Only conclusion I follows.	Only conclusion II follows.	Either conclusion I or II follows.	Neither conclusion I nor II follows.	Both conclusions I and II follow.	3	<p>The two conclusions are contradictory:  If <b>some pens are erasers</b> is true, then <b>no pen is eraser</b> is false.  If <b>no pen is eraser</b> is true,</p>

	Some pencils are erasers. <b>Conclusions:</b> I. Some pens are erasers. II. No pen is eraser.							then <b>some pens are erasers</b> is false. In such cases, where one conclusion must be true and the other must be false, the correct answer is: <b>c) Either conclusion I or II follows.</b>
13	In a certain code language, "STRONG" is written as "VUSQRP". How is "WEAK" written in that code?	ZGDC	ZEDB	ZEDC	ZGDC	None of these	3	Each letter in the word "STRONG" is moved two places forward in the alphabet to obtain the corresponding letter in the code.  S (+2) = V T (+2) = U R (+2) = S O (+2) = Q N (+2) = R G (+2) = P Following the same pattern: W (+2) = Z E (+2) = G A (+2) = C K (+2) = E Therefore, "WEAK" is coded as "ZEDC". <b>Answer: (c) ZEDC</b>
14	Find the missing term in the following series: P3Q, R5S, T8U, ____	V12W	V11W	W12X	W11X	None of these	1	Observe the pattern: +2 in alphabets, +2, +3, +4 in numbers

Directions (15-20) Following questions are based on the five words given below. Study the following numbers and answer the questions given below:

		TOY	MAT	RAT	VAT	WIT	MEN	
15	If the vowel in each of the given words is changed to its next letter and each consonant is changed to its previous letter according tot the English alphabetical series, then in how many words at least one vowel?	One	Two	Three	Four	Five	1	SPX LBS QBS <b>UBS</b> VJS LFM  Only one word UBS has vowel
16	How many letters are there between the first letter of the second word from left and first letter of the third word from right end in English alphabetical series	8	6	7	5	More than 8	1	TOY <b>M</b> AT RAT <b>V</b> AT WIT MEN  There are eight letters between M and V
17	If the words are arranged according to the English dictionary from left to right, then which of the following word is second from left to right?	TOY	WIT	MEN	VAT	None of these	3	MAT <b>MEN</b> RAT VAT WIT MEN



18	If all the letters in each word are arranged according to the English alphabetical series from left to right, then how many meaningful words are formed?	1	2	3	5	4	1	OTY AMT <b>ART</b> ATV ITW EMN
19	If the first letter is interchanged with the third letter within the word hen how many words start with a vowel?	None	1	2	3	More than Three	1	YOT TAM TAR TAV TIW NEM
20	Finger' is to 'Hand' as 'Toe' is to	Leg	Foot	Knee	Arm	Toe	2	Simple relationship

Study the following information carefully and answer the questions (21-25) given below:

In a certain code language:

"flower is blooming" is coded as "gt sj kz"

"blooming during spring" is coded as "kz hv qa"

"spring winter season flower" is coded as "qa lx gt px"

"during winter rain fall" is coded as "qv px lt hv"

21	What is the code for "flower" in the given code language?	sj	gt	kz	hv	None of these	2	Write down the sentences and their codes Find common words and their codes Assign the words their code Now Assign the remaining codes
22	What is the code for "blooming spring" in	gt qa	kz qa	sj hv	hv kz	None of these	1	

	the given code language?							
23	In the given code language, what does "lx" stand for?	flower	spring	during	season	None of these	4	
24	What is the code for "season is during" in the given code language?	lx sj hv	qa sj kz	lx sj qa	sj lx qv	None of these	3	
25	What may be the code for "rain" in the given code language?	px	hv	lx	lt	sj	5	

Directions (26-30): Study the given information carefully to answer the given questions.

In a certain code language, 'committee to review papers' is written as

26	What is the code for 'morning' in the given code language?	mo	yu	ch	ba	None of these	4	<table><tr><td>Word</td><td>Code</td></tr><tr><td>Committee</td><td>es/pt</td></tr><tr><td>to</td><td>re</td></tr><tr><td>review</td><td>Fr</td></tr><tr><td>papers</td><td>es/pt</td></tr><tr><td>meeting</td><td>ch</td></tr><tr><td>in</td><td>mo</td></tr><tr><td>morning</td><td>ba</td></tr><tr><td>appoint</td><td>gi</td></tr><tr><td>members</td><td>dv</td></tr><tr><td>chairman</td><td>yu</td></tr></table>	Word	Code	Committee	es/pt	to	re	review	Fr	papers	es/pt	meeting	ch	in	mo	morning	ba	appoint	gi	members	dv	chairman	yu
Word	Code																													
Committee	es/pt																													
to	re																													
review	Fr																													
papers	es/pt																													
meeting	ch																													
in	mo																													
morning	ba																													
appoint	gi																													
members	dv																													
chairman	yu																													
27	In the given code language, what does the code 'pt' stand for?	appoint	Either 'papers' or 'committ ee'	morning	review	none of these	2																							
28	What may be the code for 'review call' in the given code language?	dv iq	iq ig	iq fr	gi es	fr dv	3																							
29	What is the code for 'to' in the given code language?	mo	fr	gi	dv	re	5																							
30	If 'appoint new members' is coded as	wz ch es	ch wz yu	yu mo wz	fr es wz	ch yu fr	2																							

	'dv wz gi' in the given code language, then what is the code for 'new chairman meeting'?							
31	USB is a common interface that enables the communication between devices and a host controller such as a personal computer (PC). 'S' in USB stands for?	System	Syntax	Simple	Symbol	Serial	5	Universal Serial Bus
32	The software tools that enable a user to interact with a computer for specific purposes are known as—	Hardware	Network ed Softwar e	Sharewar e	Applications	None of these	4	an application (app), application program or application software is a computer program or software designed to help people perform an activity.
33	The _____ enables your computer to connect to other computers.	Network Interface Card	ALU	Video Card	Sound Card	None of these	1	A network interface card (NIC) is a hardware component without which a computer cannot be connected over a network.
34	Computers use the number system to store data and perform calculations.	Binary	Octal	Decimal	Integer	None of these	1	Computers use the binary number system to store data and perform calculations

35	A hacker contacts your phone or E-mails and attempts to acquire your password is called	Spamming	Bugging	Spoofing	Phishing	None of these	4	Phishing is a cybercrime in which a target or targets are contacted by email, telephone or text message by someone posing as a legitimate institution to lure individuals into providing sensitive data such as personally identifiable information, banking and credit card details, and passwords.
36	ALU is	Arithmetic Logic Unit	Application Logic Unit	Alternate Logic Unit	Array Logic Unit	None of these	1	ALU is a unit in Central Processing Unit in a computer system that is responsible for arithmetic calculations and logical operations.
37	2, 6, 12, 20, 30, ?	40	42	49	35	56	2	The sequence is: $(1 \times 2) = 2$ $(2 \times 3) = 6$ $(3 \times 4) = 12$ $(4 \times 5) = 20$ $(5 \times 6) = 30$ $(6 \times 7) = 42$

Directions (26-28): Study the information carefully and answer the questions given below.

Ram starts walking in north direction from point P, after walking 15m he reached at point A, then he takes right turn and walks 7m to reach at point Q.  
After that he walks in south direction and walks 10m to reach at point M. Point B is 5m east of point M. Point R is 22m north of B. Point C is 10m west of R.

38	What is the direction of R with respect to Ram's initial position?	North	East	West	North-East	South	4	
39	What is the shortest distance between Q and R?	13m	20m	25m	7m	10m	1	
40	What is the direction of P with respect to B?	North	East	South-West	West	South	3	

Direction (31-35) : Study the information given below and answer the questions based on it.

In a certain code, 'we are best friends' is written as 'sa na ta ca' : 'we good are player' is written as 'ba ca ka na' : 'friends best good more' is written as

'ba sa pa ta' : 'are best own aim' is written as 'qa sa ra na'

41	What is the code for 'more'?	Ca	Ka	pa	Na	none	3	
42	What is the code for 'friends'?	ta	Ca	Ka	Pa	na	1	

43	What is the code for 'best friends'?	Sa pa	Sa ta	Ka pa	Ta na	none	2
44	Which of the following may represent 'own are good player'?	Sa pa na ma	Ba ta ra pa	Ca ka na ta	Ca na sa ta	ba na ka ra	5
45	What is the code for 'we'?	ca	Ka	Pa	Na	ta	1

Words and codes are

word	code	word	code
we	ca	player	ka
are	na	more	pa
best	sa	own	qa/ra
friends	ta	aim	ra/qa
good	ba		

Directions (36-40): Study the following information carefully and answer the questions given below:--

Eight friends, namely, Karina, Monika, Poonam, Akansha, Trina, Yuvika, Vanshika and Riya are sitting around a circular table and each of them is facing the centre.

Karina is second to the right of Trina who is the neighbour of Poonam and Vanshika.

Akansha is not the neighbour of Karina.

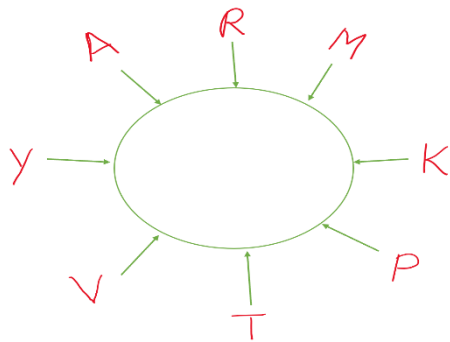
Vanshika is the neighbour of Yuvika.

Monika is not between Akansha and Riya.

Riya is not between Yuvika and Akansha.

Riya is not an immediate neighbour of Karina.

46	Who is sitting exactly opposite to Monika?	Yuvika	Vanshika	Trina	Karina	Poonam	2	
47	How many people sit between Riya and Vanshika?	Two	Three	One	Four	Five	1	
48	Who sits third to the right of Yuvika?	Yuvika	Poonam	Trina	Karina	Vanshika	2	

49	Who sits exactly in between Akansha and Yuvika?	Karina	Poonam	Trina	Karina	none	5	
50	Who is sitting exactly opposite to Monika?	Yuvika	Vanshika	Trina	Karina	Poonam	2	