

## XAT Paper-2014 (All Sets) Key & Explanations

Set	Set	Set	Set		
В	A	C	D	Key	Explanations
1.	9.	12.	12.	В	Line 1 will be the opening line as it mentions the mechanism of electroweak symmetry as one of the most important issues in Particle physics. Line 4 will form a logical pair as the SUSY further elaborates the term(most important issue mentioned in Line 1.Line 3 refers to the "fundamental Higgs doublet" (Higgs sector consists of 2 chiral superfields of Higgs doublets").Line 5 refers to the minimal SUSY further describes the Higgs sector which consists of (H1 and H2 with opposite hypercharges) Line 2 will follow as it further justifies the function of SUSY (required to give masses for all quarksgauge anomaly). So, the correct sequence will be 14352.
2.	10.	13.	13.	Е	Line 1 is the opening line as it refers to the term" no official collection of Shakespeare's play appeared until his death. Line 4 refers to Shakespeare's collection of sonnets that appeared before 1609 just before his death. Line 5&3 will form a logical pair as the term "quartots" is further elaborated in Line 3.Also,line 2 justifies the term "quartos" (were probably based on actors memories of the play). So the correct sequence will be 14532
3.	11.	9.	1.	В	Since the word "as "is used ,so synonyms or the same tone options will be appropriate .In option 1, <b>Blithely</b> means without thought or regard; carefree; heedless or joyous: Undesirable means not likeable. As both the options are contrastive in nature, so this option will be inappropriate .In option 2, Cavalierly means to be arrogant or haughty, disdainful, and Apocryphal means of doubtful authorship .Vehemently means characterized by rancor or anger; So, the most appropriate is B
4.	12.	10.	2.	A	The use of "not just" is suggestive of the fact contrastive option will eb the most appropriate. In option 1" <b>retribution</b> means requital according to merits or deserts, especially for evil or retaliation. Camaraderie means comradeship. Guilt means the fact or state of having committed a crime, violation, or wrong, especially against moral offence. However, crime and religion do not fit in the passage. In option E "recrimination is a countercharge and insight is to a deep understanding of a concept. So the most appropriate option will be A
5.	13.	11.	3.	В	Separate studies for the both types of excitations and now the last line will focus on when these two theories related to their combined effect on atomic nuclei.
6.	3.	1.	4.	С	Precise instead of exact will be more appropriate with "techniques "on the basis of which, the appropriate options will be C&D. Since ,we use "increase" for numbers/numerals and improvement with qualities, so Improvement is the right word that goes with notions. SO the correct option is C.
7.	4.	2.	5.	A	Out of such as" and "like", the former is preferred because "such as" is used for a particular characterstic and like "is used for the process of execution". Since the word "disorder "has been mentioned, so "such as" will be more appropriate. So options A&E are left. Since it cannot be "the host of emotional and behavioural disorders, so the appropriate option is A.
8.	5.	3.	6.	Е	Though "but" and yet are counter indicators, a small difference still exists .While "yet "is used in situations where despite the likelihood, the event doesn't occur and vice versa. On the contrary, "but "is used to suggest simple counter opinions. In the question "but" will be preferred over "yet", so options A&E are left. Since, this subsumption relation is specific, article "the "will "be used instead of "a". SO the correct option will be E
9.	6.	4.	7.	Е	
10.	7.	5.	8.	С	The media paid high attention on 'char dham' inspite of the fact the other areas were also badly affected. Hence the answer is option 3
11.	8.	6.	9.	A	The given statement is correct. 'OLDER' cannot come as no two things are c compared and 'not only ' is followed by'but also'
12.	1.	7.	10.	В	Statement 1 is an author's own perception regarding people achieving greatness by a few in their chosen field therefore it is an assumption and it is true also as





about the results. Therefore it should be realization of truth above all rather than running after perishables. Hence the answer is option 2.  26. 17. 23. 26. E The passage highlights that it is a mistake to think that consumers' preferences can be changed as most of the business/ choice models think instead it is independent of models and more related to desires of the consumers and they will try to find the desires in the products that they buy. Out of all the options this is possible in the option 5.  27. 18. 24. 27. D The given lines points out option 4 as the passage says that consumer want to associated with the desire attached to a product while buying that product and this is explicitly shown in the option 4.  28. 19. 25. 28. E As the passage also suggests that consumers go by their own desires and hope for an altered state of being involving an altered set of social relationships and the lines in the given question are also converging to the same ideas as the key words are 'personalized narratives', 'metamorphic and metonymic references' etc to go against the 'dominant' fashion norms in their social environment or consumer culture at large. The one of prime reason for doing this is to put across the want for recognition etc.						
13.   2.   8.   11.   D   All the statements are inductive inferences as all of them are based on 'a' real incidence.     14.   20.   26.   23.   B   The author says that army like governments is inexpedient and there can be so many objections can be raised against so many them. Hence answer is option 2     15.   21.   27.   24.   D   Aher reading the last few lines author emphasizes that government and hence legislators can deliver justice or give fair treatment to a minority if decisions are conscientions. Hence answer is option A as the best.     16.   22.   28.   25.   A   In the last few lines the author says' we should be men first and subjects afterwards: This refers to option A as the best.     17.   26.   20.   14.   D   As per the lines from the first Para' the fact that most beer Clearly something is wrong somewhere points out that the answer is option 4.     18.   27.   21.   15.   B   The author has given thy example of 'Rutherford' experiment is to prove that incomparable things should not be compared.     19.   28.   22.   16.   E   None of the options fall under the category of psychophysical goods except for a concrete' a little' as it is not 'concrete', the perception of which may or may not change after increasing or decreasing the advertising budget. Hence answer is option 5.     20.   23.   14.   17.   D   The passage says that 'probability lacks consistency'. There is a gap between 'probability and 'experience' as per the passage and given line. Therefore answer is option 4.     21.   24.   15.   18.   E   The author says that 'we are confronted by two tasks and he goes on explaining these two tasks further in the passage. Hence the both the task are required to test the theory.     22.   25.   16.   19.   C   From the first few lines and last few lines from the passage it can be inferred that 'theory may have been inaccurately applied in other subjects'.     24.   15.   18.   21.   C   From the first few lines and last few lines grow and the green with the option 4.     26.						
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	29.	36.	33.	36.	В	If the company launches the product



	I	I	1	I	4 (1 1: 4 1 : 50
					the cost of launching the product = 50 crores
					there are 50% chance of success hence 50 % of 100 crore = 50 crore and 50% of chance of unsuccessful sales = 50% of 20 crore = 10
					hence profit =- $60 - 50 = 10$ crores
30.	37.	34.	37.	*	The product whose results are favorable has success rate = 80%
					Cost of product = launching+ marketing =Total cost = 50 + 10 crores
					Sales = successful + unsuccessful = 80% * 100 + 20 % *20 = 84 crore
					Profit = $84 - 60 = 24$ crores
31.	38.	35.	38.	В	Probability of product failure = failure probability when product is favorable result but fails + probability when unfavorable and fails
					= 0.70*0.20 + 0.30*0.70 = 0.14 + 0.21 = 0.35
32.	39.	36.	39.	D	Despite unfavorable :the profit earned by company can be =
					Cost of product = launching+ marketing = 60 crores
					Now the product fails in the test 30% chance of success is still there
					sales = 30% of 100 crore (successful) + 70 % of 20 crore (unsuccessful)
					= 30 + 14 = 44  crores
					hence the profit = $44 - 60 = -16$ crores
33.	29.	37.	33.	В	The prime motive is to maximize the prize money .Since maximum prize money is fixed for International level. So Ms. Banerjee, keeping in mind the probability of winning the competition, will pick up those students who have hit the cent percent score maximum number of times hence rising up the probability of winning. Now, we can observe that Students 2, 6, 8 and 14 are the top four students hitting maximum cent percent score 15, 10, 12 and 20 times respectively. So looking at the options the team of top 3 is formed, i.e 2,8 and 14.
34.	30.	38.	34.	В	Now for district level, Since winning probability is on higher side. Ms. Banerjee will choose those students who have maintained a good average while the tests. Observing the average we can see that students 1,4,11 and 14, All have hit the average of 70. So a team of three should be formed from the above four mentioned. So looking up from the options students 1, 4 and 11 are selected.
35.	31.	39.	35.	D	- Now national team has to be selected after the selection of International team i.e 2, 8 and 14 are already selected, Now the students who have hit the cent
					percent score maximum number of times after the international team will be selected. Students 1,3,6 and 12 have hit the cent percent 7,8,10 and 6 times respectively. So the team of top 3 is formed from the above mentioned, I.e 3,6 and 1 are selected.
36.	32.	29.	29.	A	and 1 are selected.  As the issue is of interpretation of work of the anthropologists and same uncertainty is there in predicting the position of the electrons. Hence the answer
37.	33.	30.	30.	A	is option 1.  The author assumes that money is a great motivator and to weaken we have to
20					hit this assumption. This is clearly given in the option 1.
38.	34.	31.	31.	Е	The curve will be of L shape as after certain number of cups of coffee, as given





					in the passage, there will not be any effect on the rate of risk of suicide.
39.	35.	32.	32.	С	As we know that by statements
					F > A > G; $D > B / E$ ; $I > C$
					The best position for girish is when all others than Faneesh and Ashok finish
					after girish
					Hence the answer is option 3
40.	46.	43.	50.	D	As he has been his mentor in his childhood days and Balwant is generous by
					nature. Balwant is not so active in is business and his son is not so interested in
					a family business. When he got admission in MBA, Balwant was very happy.
41.	47.	44.	51.	<u> </u>	So it is highly likely that he should talk to Balwant regarding the issue.
41.	47.	44.	51.	С	This seems to be the middle path as this is going to be win-win situation for all the parties concerned.
42.	48.	45.	52.	С	The first person to benefit from the Bigmart is Consumer because ethically it is
					correct. The consumer should be benefitted from the firm.
					The second are the farmers because they are dealing with them
					The Third will be the retailers because they are competitors of Bigmart and they
					will be in least focus.
					Ascending order becomesthe least profiting first
					retailer
					farmers
43.	49.	46.	47.	A	The steps which should not be taken by Ram is to produce quick –quick
				'1	because: 1. Although the demand for quick-quick is increasing; but we don't
					know the percentage composition of sales
					2. There are already quality issues in the product, it should be solved first
					before producing it
44.	40.	47.	48.	Е	Rocket Singh being head of sales should look for improving brand image which
					cannot be solved by 1. Launch one more product 2. Stop production 3. Media
					awareness is good but finding the reason for customers miffed with products by
					creating a research study for their dissatisfaction is more important
45.	41.	48.	49.	С	hence the answer should be option 5  Best course of action for affected managers are to discuss the issues they face
45.	71,	40.	٠,٠		and resolve them; which is mentioned in option 3 only
46.	42.	49.	40.	С	After the analyses of 3 reports; As the data is not published for other countries and the
					reports are selective on publishing reports . hence the answer is option C
47.	50.	50.	41.	С	The only reason for seemingly divergent ranks because while google may be an important placer in the admid morket in the other countries exact from US.
48.	51.	51.	42.	Е	important player in the adroid market in the other countries apart from US  Option A is wrong because the Motorola could have paid at other countries also . Option
70.	J1.	31,	72.	L L	B & C are wrong because there is no mention of samsung in the report
					option D is wrong as sales have not been talked about anywhere . that's why answer
40			4.5		should be E
49.	52.	52.	43.	E	As non-circum in the question the granitation to Committee (C. 11. 1
50.	43.	40.	44.	В	As per given in the question the recruitment of consultant is not fixable, hence it should be the last decision taken by Ajay; Hence the appropriate step of sequence of decision =
					4 3 2 1 5
51.	44.	41.	45.	Е	The best way to discuss the solutions in open house so that the right solution should
	4-	40	47		emerge and emerge democratically. hence the answer is option E
52.	45.	42.	46.	В	Doing nothing should not be taken whereas infuse fresh thinking by hiring outsiders should be the least concerned; hence the best possible sequence should be B
53.	53.	59.	61.	A	
					$S = \frac{\alpha + \omega}{1 + \alpha + \alpha}$ As all parameters are positive.
					$\tau + \rho \times \omega$
					As the value function is multiple function in numerator and addition function in numerator
					hence the value of S will increase with the increase of value
					Moreover it can be further re checked by assuming values.
54.	54.	60.	62.	D	Grade $A \ge 90$ ;
					Whereas Grade B = 87 to 89;
					If ramesh is scoring 70 instead of 97 = hence the change of 27 marks in one subject, creating a change of Grade from A to B which mean a overall change in average by 3 i,e
					(minimum of grade A – grade B 90- 87)



					1 2 2
55.	55.	53.	63.	A	$ax^3 + bx^2 + cx + d$ , intersects at $x = 1$ , $x = -1$ Hence at $x = 1, -1$ , $ax^3 + bx^2 + cx + d = 0$
					Put $x = 1$ , $a + b + c + d = 0$ (1)
					Put $x = -1$ , $-a + b - c + d = 0$ (2)
					Put y = 2 that means at $x = 0$ , y = 2 but that is not the third root.
					at $x = 0$ ; a $(0)^3 + b(0)^2 + c(0) + d = 2$
					d = 2 (3)
					Hence using (1), (2), (3)
					2b + 4 = 0
					b = -2, hence the answer is option A.
56.	61.	54.	58.	A	As per the question the natural numbers are x, y, x+y, x-y
					Using statement 1 alone; As all the numbers are prime hence either x or y has to 2
					because otherwise x+ y cannot be prime
					now if x is 2 then x-y is not possible as prime; hence $y = 2$ and numbers $x - 2$ , $x$ , $x + 2$
					(substituting value of y) will be in prime as well as in series, hence the only possibility will be 2 3 5 7.
					Whereas using statement 2 answer cannot be find out.
					Hence the answer is option A
57.	62.	55.	59.	Е	ABC is a right angle triangle. D and E are mid points of AB and BC.
37.	02.	33.	39.	E	Abe is a right angle triangle. D and E are find points of Ab and be.
					A
					D + \ \
					B E C
					As it is not given that which angle is $90^{\circ}$ . So without it we cannot find the value of AC.
					Hence the statement III is compulsory.
					Whereas using statement I and statement II alone we cannot find the value of AC. But
					using all the three statements. We can find value of $AB^2 + BC^2$ ; Hence the value of $AC^2$
					$= AB^2 + BC^2$ can be find. (By Pythagoras theorem)
58.	63.	61.	60.	С	
58.	63.	61.	60.	С	P <sub>1</sub>
58.	63.	61.	60.	С	
58.	63.	61.	60.	С	P <sub>1</sub>
58.	63.	61.	60.	С	$P_1$ $O_2$
58.	63.	61.	60.	С	P <sub>1</sub>
58.	63.	61.	60.	С	$P_1$ $O_2$
58.	63.	61.	60.	С	$O_1$ $X$ $O_2$
58.	63.	61.	60.	С	$O_1$ $X$ $O_2$ $O_2$ $O_2$
58.	63.	61.	60.	С	$\begin{array}{c} P_1 \\ O_2 \\ \hline O_1 \\ \hline \end{array}$ Given that $O_1P_1=3$ , $O_2P_2=8$ , $O_1$ $X=5$ units.
58.	63.	61.	60.	С	$\begin{array}{c} P_1 \\ O_2 \\ \hline O_1 \\ \hline \end{array}$ Given that $O_1P_1=3$ , $O_2P_2=8$ , $O_1$ $X=5$ units.
58.	63.	61.	60.	С	Given that $O_1P_1 = 3$ , $O_2P_2 = 8$ , $O_1X = 5$ units. In $\Delta O_1XP_1 \Rightarrow P_1X \Rightarrow \sqrt{(O_1X)^2 - (O_1P_1)^2} = \sqrt{25-9} = \sqrt{16} = 4$
58.	63.	61.	60.	С	Given that $O_1P_1 = 3$ , $O_2P_2 = 8$ , $O_1X = 5$ units. In $\Delta O_1XP_1 \Rightarrow P_1X \Rightarrow \sqrt{(O_1X)^2 - (O_1P_1)^2} = \sqrt{25-9} = \sqrt{16} = 4$
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58.	63.	61.	60.	С	Given that $O_1P_1 = 3$ , $O_2P_2 = 8$ , $O_1 X = 5$ units. In $\Delta O_1 X P_1 \Rightarrow P_1 X \Rightarrow \sqrt{(O_1 X)^2 - (O_1 P_1)^2} = \sqrt{25 - 9} = \sqrt{16} = 4$ As $\Delta O_1P_1 x = \frac{x P_2}{x P_1} = \frac{O_2 P_2}{O_1 P_1}$ $X P_2 = \frac{8}{3} \times 4 = \frac{B2}{3} \Rightarrow 10.66$ Total distance $P_1P_2 \Rightarrow XP_2 + P_1 \times \Rightarrow 10.66 + 4 \Rightarrow 14.66$ units. Hence Answer is option
					Given that $O_1P_1=3$ , $O_2P_2=8$ , $O_1X=5$ units. In $\Delta O_1XP_1\Rightarrow P_1X\Rightarrow \sqrt{(O_1X)^2-(O_1P_1)^2}=\sqrt{25-9}=\sqrt{16}=4$ As $\Delta O_1P_1x=\frac{xP_2}{xP_1}=\frac{O_2P_2}{O_1P_1}$ $XP_2=\frac{8}{3}\times 4=\frac{B2}{3}\Rightarrow 10.66$ Total distance $P_1P_2\Rightarrow XP_2+P_1\times\Rightarrow 10.66+4\Rightarrow 14.66$ units. Hence Answer is option C.
59.	63. 56.	61.	53.	C	Given that $O_1P_1 = 3$ , $O_2P_2 = 8$ , $O_1 X = 5$ units. In $\Delta O_1 X P_1 \Rightarrow P_1 X \Rightarrow \sqrt{(O_1 X)^2 - (O_1 P_1)^2} = \sqrt{25 - 9} = \sqrt{16} = 4$ As $\Delta O_1P_1 x = \frac{x P_2}{x P_1} = \frac{O_2 P_2}{O_1 P_1}$ $X P_2 = \frac{8}{3} \times 4 = \frac{B2}{3} \Rightarrow 10.66$ Total distance $P_1P_2 \Rightarrow XP_2 + P_1 \times \Rightarrow 10.66 + 4 \Rightarrow 14.66$ units. Hence Answer is option C.  The numbers $x$ , 17, 3 $x$ - $y$ <sup>2</sup> – 2, 3 $x$ + $y$ <sup>2</sup> -30 are in A.P; and one of the term is odd i.e 17
					Given that $O_1P_1=3$ , $O_2P_2=8$ , $O_1$ $X=5$ units. In $\Delta O_1$ $X$ $P_1\Rightarrow P_1$ $X\Rightarrow \sqrt{(O_1X)^2-(O_1P_1)^2}=\sqrt{25-9}=\sqrt{16}=4$ As $\Delta O_1P_1$ $x=\frac{xP_2}{xP_1}=\frac{O_2P_2}{O_1P_1}$ $X$ $Y_2=\frac{8}{3}\times 4=\frac{B2}{3}\Rightarrow 10.66$ Total distance $P_1P_2\Rightarrow XP_2+P_1\times\Rightarrow 10.66+4\Rightarrow 14.66$ units. Hence Answer is option $C$ . The numbers $x$ , $17$ , $3x-y^2-2$ , $3x+y^2-30$ are in A.P; and one of the term is odd i.e 17 and increasing sequence,
					Given that $O_1P_1=3$ , $O_2P_2=8$ , $O_1X=5$ units. In $\Delta O_1XP_1\Rightarrow P_1X\Rightarrow \sqrt{(O_1X)^2-(O_1P_1)^2}=\sqrt{25-9}=\sqrt{16}=4$ As $\Delta O_1P_1x=\frac{xP_2}{xP_1}=\frac{O_2P_2}{O_1P_1}$ $XP_2=\frac{8}{3}\times 4=\frac{B2}{3}\Rightarrow 10.66$ Total distance $P_1P_2\Rightarrow XP_2+P_1\times\Rightarrow 10.66+4\Rightarrow 14.66$ units. Hence Answer is option C. The numbers $x$ , $17$ , $3x-y^2-2$ , $3x+y^2-30$ are in A.P; and one of the term is odd i.e 17 . and increasing sequence, Hence either the common difference is odd or even
					Given that $O_1P_1=3$ , $O_2P_2=8$ , $O_1$ $X=5$ units. In $\Delta O_1$ $X$ $P_1\Rightarrow P_1$ $X\Rightarrow \sqrt{(O_1X)^2-(O_1P_1)^2}=\sqrt{25-9}=\sqrt{16}=4$ As $\Delta O_1P_1$ $x=\frac{xP_2}{xP_1}=\frac{O_2P_2}{O_1P_1}$ $X$ $Y_2=\frac{8}{3}\times 4=\frac{B2}{3}\Rightarrow 10.66$ Total distance $P_1P_2\Rightarrow XP_2+P_1\times\Rightarrow 10.66+4\Rightarrow 14.66$ units. Hence Answer is option C. The numbers $x$ , $17$ , $3x$ - $y^2-2$ , $3x+y^2-30$ are in A.P; and one of the term is odd i.e 17 . and increasing sequence, Hence either the common difference is odd or even If common difference is odd , hence two terms are odd and two terms will be even;
					Given that $O_1P_1=3$ , $O_2P_2=8$ , $O_1X=5$ units. In $\Delta O_1XP_1\Rightarrow P_1X\Rightarrow \sqrt{\left(O_1X\right)^2-\left(O_1P_1\right)^2}=\sqrt{25-9}=\sqrt{16}=4$ As $\Delta O_1P_1x=\frac{xP_2}{xP_1}=\frac{O_2P_2}{O_1P_1}$ $XP_2=\frac{8}{3}\times 4=\frac{B2}{3}\Rightarrow 10.66$ Total distance $P_1P_2\Rightarrow XP_2+P_1\times\Rightarrow 10.66+4\Rightarrow 14.66$ units. Hence Answer is option C.  The numbers $x$ , $17$ , $3x-y^2-2$ , $3x+y^2-30$ are in A.P; and one of the term is odd i.e $17$ . and increasing sequence, Hence either the common difference is odd or even If common difference is odd, hence two terms are odd and two terms will be even; hence sum has to be even and should be divisible by $2$
					Given that $O_1P_1=3$ , $O_2P_2=8$ , $O_1$ $X=5$ units. In $\Delta O_1$ $X$ $P_1\Rightarrow P_1$ $X\Rightarrow \sqrt{(O_1X)^2-(O_1P_1)^2}=\sqrt{25-9}=\sqrt{16}=4$ As $\Delta O_1P_1$ $x=\frac{x}{2}\frac{P_2}{x}\frac{P_1}{P_1}=\frac{O_2}{O_1}\frac{P_2}{P_1}$ $X$ $P_2=\frac{8}{3}\times 4=\frac{B2}{3}\Rightarrow 10.66$ Total distance $P_1P_2\Rightarrow XP_2+P_1\times \Rightarrow 10.66+4\Rightarrow 14.66$ units. Hence Answer is option C.  The numbers $x$ , $17$ , $3x-y^2-2$ , $3x+y^2-30$ are in A.P; and one of the term is odd i.e 17. and increasing sequence, Hence either the common difference is odd or even If common difference is odd, hence two terms are odd and two terms will be even; hence sum has to be even and should be divisible by 2. If common difference is even, hence all the terms are odd; hence sum has to be even and
59.	56.	62.	53.	A	Given that $O_1P_1=3$ , $O_2P_2=8$ , $O_1X=5$ units. In $\Delta O_1XP_1\Rightarrow P_1X\Rightarrow \sqrt{(O_1X)^2-(O_1P_1)^2}=\sqrt{25-9}=\sqrt{16}=4$ As $\Delta O_1P_1x=\frac{xP_2}{xP_1}=\frac{O_2P_2}{O_1P_1}$ $XP_2=\frac{8}{3}\times 4=\frac{B2}{3}\Rightarrow 10.66$ Total distance $P_1P_2\Rightarrow XP_2+P_1\times\Rightarrow 10.66+4\Rightarrow 14.66$ units. Hence Answer is option C. The numbers $x$ , $17$ , $3x-y^2-2$ , $3x+y^2-30$ are in A.P; and one of the term is odd i.e 17. and increasing sequence, Hence either the common difference is odd or even If common difference is odd, hence two terms are odd and two terms will be even; hence sum has to be even and should be divisible by 2. If common difference is even, hence all the terms are odd; hence sum has to be even and should be divisible by 2.
					Given that $O_1P_1=3$ , $O_2P_2=8$ , $O_1X=5$ units.  In $\Delta O_1XP_1\Rightarrow P_1X\Rightarrow \sqrt{(O_1X)^2-(O_1P_1)^2}=\sqrt{25-9}=\sqrt{16}=4$ As $\Delta O_1P_1x=\frac{xP_2}{xP_1}=\frac{O_2P_2}{O_1P_1}$ $XP_2=\frac{8}{3}\times 4=\frac{B2}{3}\Rightarrow 10.66$ Total distance $P_1P_2\Rightarrow XP_2+P_1\times\Rightarrow 10.66+4\Rightarrow 14.66$ units. Hence Answer is option C.  The numbers $x$ , $17$ , $3x-y^2-2$ , $3x+y^2-30$ are in A.P; and one of the term is odd i.e 17. and increasing sequence, Hence either the common difference is odd, hence two terms are odd and two terms will be even; hence sum has to be even and should be divisible by 2. If common difference is even, hence all the terms are odd; hence sum has to be even and should be divisible by 2. By Simple property of triangle sum of two sides should be > third side and the difference
59.	56.	62.	53.	A	Given that $O_1P_1=3$ , $O_2P_2=8$ , $O_1X=5$ units. In $\Delta O_1XP_1\Rightarrow P_1X\Rightarrow \sqrt{\left(O_1X\right)^2-\left(O_1P_1\right)^2}=\sqrt{25-9}=\sqrt{16}=4$ As $\Delta O_1P_1x=\frac{x}{x}\frac{P_2}{P_1}=\frac{O_2}{O_1}\frac{P_2}{P_1}$ $XP_2=\frac{8}{3}\times 4=\frac{B2}{3}\Rightarrow 10.66$ Total distance $P_1P_2\Rightarrow XP_2+P_1\times\Rightarrow 10.66+4\Rightarrow 14.66$ units. Hence Answer is option C.  The numbers $x$ , $17$ , $3x$ - $y^2-2$ , $3x+y^2-30$ are in A.P; and one of the term is odd i.e 17. and increasing sequence, Hence either the common difference is odd, hence two terms are odd and two terms will be even; hence sum has to be even and should be divisible by 2. If common difference is even, hence all the terms are odd; hence sum has to be even and should be divisible by 2. By Simple property of triangle sum of two sides should be $>$ third side and the difference of two sides is $<$ third side
59.	56.	62.	53.	A	Given that $O_1P_1=3$ , $O_2P_2=8$ , $O_1X=5$ units.  In $\Delta O_1XP_1\Rightarrow P_1X\Rightarrow \sqrt{(O_1X)^2-(O_1P_1)^2}=\sqrt{25-9}=\sqrt{16}=4$ As $\Delta O_1P_1x=\frac{xP_2}{xP_1}=\frac{O_2P_2}{O_1P_1}$ $XP_2=\frac{8}{3}\times 4=\frac{B2}{3}\Rightarrow 10.66$ Total distance $P_1P_2\Rightarrow XP_2+P_1\times\Rightarrow 10.66+4\Rightarrow 14.66$ units. Hence Answer is option C.  The numbers $x$ , $17$ , $3x-y^2-2$ , $3x+y^2-30$ are in A.P; and one of the term is odd i.e 17. and increasing sequence, Hence either the common difference is odd, hence two terms are odd and two terms will be even; hence sum has to be even and should be divisible by 2. If common difference is even, hence all the terms are odd; hence sum has to be even and should be divisible by 2. By Simple property of triangle sum of two sides should be > third side and the difference



					Hence answer is option B
61.	58.	56.	55.	В	$\begin{vmatrix} x+7 \end{vmatrix} + \begin{vmatrix} x-8 \end{vmatrix} = 16$
					Taking + ve and – ve of values of mode = $16$
					2x-1=16; $x=+8.5$
					Taking –ve values = $-2x + 1 = 16$ ; X = -7.5
					Sum of possible values of $x = 8.5 - 7.5 = 1$
62.	59.	57.	56.	Е	Р
					p L
					Q
					A
					Let length of Ladder is PA = 30m. PQ $\Rightarrow$ 26m. Hence the Length of QA $\rightarrow$ Distance of
					ladder boot from wall $\Rightarrow$ In $\triangle$ PQA Right Angled at Q.
					$QA = \sqrt{30^2 - 26^2} = \sqrt{900 - 676} = \sqrt{224}$ is 15m.
					(OA) $(15)$
					Hence Angle PAQ $\Rightarrow$ Cos <sup>-1</sup> $\left(\frac{QA}{PA}\right) = \cos^{-1}\left(\frac{15}{30}\right) \Rightarrow 60^{0}$
					$\angle PBQ = \frac{1}{2} \angle PAQ = 30^{0}$
					$\mathcal{L}$
					As Length of $PB = PA = 30m$ .
					Length of QB = PB cos $30^0 = 30 \times \frac{\sqrt{3}}{2} \Rightarrow 25.98$
					Length of QB = FB cos 30 = 30 $\times$ $\frac{1}{2}$ $\Rightarrow$ 23.78
					Hence Length of AB = $25.98 - 15 \Rightarrow 10.98 \approx 11$ .
63.	60.	58.	57.	C	Let the smallest initial Number = x.
					Let sequence of operation Represented by AM (Amitabh) and (Sashi) Step operation
					AM = 2x
					SA = 2x + 50
					AM = 4x + 100
					SA = 4x + 150 AM = 8x + 300
					SA = 8x + 350
					AM = 16x + 700
					SA = $16x + 750 \leftarrow$ Hence SA should lose that means.
					16x + 750 > 999 16x + 750 > 999 (for lowest possible)
					16x + 750 > 999 (10) Towest possible) 16x + 750 > 249
					249
					$x > \frac{2+9}{16}$ $\Rightarrow$ taking minimum possible.
					x > 15. Hence $x = 16$ And sum of digit should be 7
64.	64.	70.	72.	D	<u> </u>
					D b P a C
					$\left(\begin{array}{c} 3 \text{ a} \\ 2\sqrt{2} \end{array}\right)$
					$\begin{pmatrix} 3 & a & 2\sqrt{2} \\ & \bullet & & & \end{pmatrix}$
					$\left \begin{array}{c c} \overline{3} \end{array}\right $
					\   \ \ \   /
					A   3   B



		71			The figure of the question will be as shown above $S_1$ is the outer square of area 9 units. Hence its side will be 3 units $S_2$ is the inner square of area 8 units. Hence its side is $2\sqrt{2}$ units. $\therefore$ In $\triangle$ PDS $b^2 + a^2 = 8$ $b^2 + (3 - b^2 = 8)$ $b^2 + 9 + b^2 - 6b = 8$ $2b^2 - 6b + 1 = 0$ $b = \frac{6 + \sqrt{36 - 8}}{4}$ $= \frac{6 \pm \sqrt{28}}{4} = \frac{3 + \sqrt{7}}{2}$ $\Rightarrow$ $a = 3 - b = 3 - \frac{3 + \sqrt{7}}{2} = \frac{6 - 3 - \sqrt{7}}{2} = \frac{3 - \sqrt{7}}{2}$ $\Rightarrow$ $\frac{3 + \sqrt{7}}{2} = \frac{3 + \sqrt{7}}{3 - \sqrt{7}} \approx 15.9$ Hence option D is the answer.
65.	65.	71.	73.	D	The total volume discharged by the pipe = volume of Frustum Formed As it is given that point of contact is 17cm alongside and 15cm from the base. Hence AB $\Rightarrow \sqrt{17^2 - 15^2} = \sqrt{64} = 8\text{cm}$ If AB = 8 then OA = O¹C = 13-8 = 5cm Volume of Frustum = volume discharged $\frac{1}{3} \times \text{M} \times (13^2 + 5^2 + 13 \times 5) = \text{M} \times \left(\frac{5}{100}\right)^2 \times \text{Minute for discharge (T)}$ T mins. = $\frac{259}{50} = 5.1$ minutes.
66.	66.	64.	74.	С	Probability of being both red = $5/16$ That means both Bags give red balls. Probability of being both red = Probability of red from $1^{st} \times$ Probability of red from $2^{nd}$ $\frac{5}{16} = \frac{5}{8} \times \frac{1}{2} \rightarrow \text{only possible as probability cannot be 1 or > 1 (as given in the question that each bag has marbles of both colors)}$ $\frac{5}{8} \leftarrow \text{probability of red ball from } 1^{st} \text{ bag}$



					Probability of Blue Ball from 1 <sup>st</sup> bag = $1 - \frac{3}{8} = \frac{3}{8}$ Similarly probability of red ball from 2 <sup>nd</sup> bag = $\frac{1}{2}$ probability of blue ball from 2 <sup>nd</sup> bag = $1 - \frac{1}{2} = \frac{1}{2}$ Hence probability of both blue $\Rightarrow \frac{1}{2} \times \frac{3}{8} = \frac{3}{16}$
67.	72.	65.	69.	D	$ \frac{\sum_{n=1}^{13} \frac{1}{n} \Rightarrow \frac{x}{13!}}{\sum_{n=1}^{13} \frac{1}{n}} \Rightarrow \frac{x}{13!} $ Expanding $\frac{1}{1} + \frac{1}{2} + \frac{1}{3} + \dots - \frac{1}{13} = \frac{x}{13!}$ $ 13! + \frac{13!}{2} + \frac{13!}{3} - \dots - \frac{13!}{13} = \frac{x}{13!} $ When $x$ is divided by 11  That means $\frac{13! + \frac{13!}{2} + \frac{13!}{3} - \dots - \frac{13!}{13}}{11}$ All quantity have multiple of 11 except $\frac{13!}{11}$ So $\frac{13!}{11} + \frac{13!}{2 \times 11} - \dots + \frac{13!}{13 \times 11}$ All will give remainder O except the term $= \frac{13!}{11 \times 11!}$ Remainder of $x$ divided by $11 \Rightarrow \frac{1 \times 2 \times 3 - \dots - 8 \times 9 \times 10 \times 12 \times 13}{11}$ $\frac{10 \times 12 \times 13}{11} = \frac{10 \times 1 \times 2}{11} \Rightarrow \frac{-2}{11} \Rightarrow 9$ is the remainder
68.	73.	66.	70.	D	As the for each 2.6m walk; 1m deep step is there the number of total steps = $\frac{48}{2.6} \Rightarrow 19$ approx.  That means steps will be in depth of 1m, 2m, 3m,19m.  Volume of tank $\Rightarrow$ (Depth) $\times$ Length $\times$ Width.  Length of each step = 2.6, width = 20m, Depth = (119) $\Rightarrow 2.6 \times 20 \times (1+2+3+419)$ $\Rightarrow \frac{2.6 \times 20 \times 19 \times 20}{2} \Rightarrow \text{approx } 10600 = \text{volume of water in tank}$



69.	74.	72.	71.	С	100 1 1 1 1 1
					$ \frac{\int_{t=2}^{100} \frac{1}{\log_1 100!}}{\frac{1}{\log_2 100!}} \Rightarrow \frac{1}{\log_2 100!} + \frac{1}{\log_3 100!} + \frac{1}{\log_4 100!} \frac{10}{\log_{100} 100!} $
					$10g_{100}$ $10g_{2}$ $100$ : $10g_{3}$ $100$ : $10g_{4}$ $100$ : $10g_{100}$ $100$ :
					$\frac{1}{\log_{b} a} = \log_{a} b \text{ (As we know)}$
					$\log_b a$
					$\Rightarrow \log_{100!} 2 + \log_{100!} 3 + \log_{100!} 4 \log_{100!} 100$
					$Also log_a b + log_a c \Rightarrow log_a b \times c$
					Hence $\Rightarrow \log_{100!} 2 \times 3 \times 4 \times 5 \times \dots 100$
70.	67.	73.	64.	D	$\Rightarrow \log_{100!} 100! = 1.$ Multiple of $10^{23}$ which and divisor of $10^{29}$
70.	07.	13.	04.	ם	Number of factor of $10^{29} \Rightarrow 2^{29} \times 5^{29} = 30 \times 30 = 900$
					Factor of $10^{29}$ multiple of $10^{23} \Rightarrow 10^{29} = 10^{23} \times 2^6 \times 5^6 \Rightarrow 7 \times 7 = 49$
					Hence $\frac{a^2}{b^2} = \frac{49}{900} = a/b = \frac{7}{30}$
71.	68.	74.	65.	A	Hence $b - a = 30 - 7 = 23$ .
/1.	00.	,	00.	11	
					$P \left( \begin{array}{c c} 3 & 3 \\ \hline \end{array} \right) Q$
					Diameter PQ will be 6 units. Y coordinates will be same along PQ as line is parallel to x axis. There will be a gap of 6 units in x coordinate of P and Q.
					Equating the y coordinate in both the equations we get
					$\therefore a^x = 2a^{x+6}$
					$1  a^{x+6}$
					$\Rightarrow \frac{1}{2} = \frac{a^{x+6}}{a^x}$
					$\Rightarrow a^6 = \frac{1}{2}$
					ı =
					$\Rightarrow a = \frac{1}{6\sqrt{2}}$
					$\sqrt{2}$
72.	69.	67.	66.	D	
73.	70.	68.	67.	Е	$792_{\rm B} \times 297_{\rm B}$ belong to base B number system. If $297_{\rm B}$ is the factor of $792_{\rm B}$
					$11297_{\rm B}$ is the factor of $792_{\rm B}$ $297_{\rm B} \Rightarrow 28^2 + 98 + 7$
					$792_{\rm B} \Rightarrow 78^2 + 98 + 2$
					$\frac{7B^2 + 9B + 2}{2B^2 + 9B + 7} \Rightarrow \text{must be integer.}$
					2B + 9B + /   (
					$\frac{\left(5B^2 - 5\right)}{2B^2 + 9B + 7} + 1$
					$2B^2 + 9B + 7$
					Hence $(5B^2 - 5) = (2B^2 + 9B + 7)$ K must be the factor.
					Put $K = 2$ $5B^2 - 5 = 4B^2 + 18B + 14$
					3B - 5 = 4B + 18B + 14 $B^2 - 18B - 19$
					(B-19)(B+1)=0
					B = 19
74.	71.	69.	68.	A	Let $x, y, z$ , the number of students getting 6, 8 and 20 marks respectively
					According to question $6x + 8y + 20z = 504$ (1) and $y = x + 2z$ (2) (2) can be written as $x = y - 2z \Rightarrow 6x = 6y - 12z$ (3)
					Put (3) in (2) we get $6y - 12z + 8y + 20z = 504$
					14y + 8z = 504 Further solving only $y = 32$ , $z = 7$ and $x = 18$ satisfies above equation.
	0.5	=0	0.5	- C	$\therefore \text{ total number of students} = x + y + z = 18 + 32 + 7 = 57.$
75.	81.	78.	81.	С	As seen from the sixth column of the first graph given, the percentage after USA in almost all the years happens to be in case of India, hence that is the answer.
76.	82.	79.	82.	D	In case of United states in the year 2002-03, there is a small decline. Brazil in the year
					2006-07 is almost equal, so no decrease. India in the year 2009-10 is again very close to



			Ι		each other, hardly any decline. In case of Malaysia in the year 2008-09 the bar graph is
					decreasing significantly proportionately. It seems between 20-25%. In China in the year
					2008-09 the decline is close to 10%. Hence it is Malaysia in the year 2008-09.
77.	83.	80.	83.	В	In this case, one by one all the countries are to be seen. In the question it is clearly stated
'''	05.	00.	05.	"	that out of the following countries, he have to answer, and that becomes India. Overall it
					seems that China would give the highest such increase. Hence answer is option B.
78.	75.	81.	75.	D	Just have a look at all the graphs and try n find the lowest value, it happens to be in case
'0'	,	01.	'		of C & E Europe, having a look at the options, it is given in case of 4 <sup>th</sup> option. Then
					checking all the remaining countries given, all are in the ascending order only. Hence it
					is the answer.
79.	76.	82.	76.	В	Just have a look at slopes of all the graphs ALONG WITH the differences of gridlines
					given. In case of C and E Europe the slope is quite increasing and the difference of grid
					lines is also very high i.e. starting from 5 it goes to around 20. As this is the highest
					among all, this is the answer. Hence option B.
80.	77.	83.	77.	Е	Maximum GDP of African region is 9.5 also Maximum GDP of south American region
					is 9.5. Hence none of these is the answer.
81.	78.	75.	78.	С	The question states to find where the first increase in percentage is higher than the
					second increase. The year 2005 is given in four options out of 5, that should be our
					starting point. Finding it actually is higher the answer 4 <sup>th</sup> option is rejected. Checking for
					2004 after that, and finding it wrong, the possible options left are B and C only.
- 02	79.	7/	70	D	Checking for 2006, which is wrong. You can mark the answer as option C.
82.	19.	76.	79.	В	Finding the values of \$ in Rs. terms for all the years given, it happens to be as follows. Year 2001 = 45.16, 2002 = 48.5, 2007 = 4.13, 2010 = 45.7, 2011 = 46.8. Now as in year
					48.5 Rs. Is equivalent to 1 dollar, it is cheapest in that year.
83.	80.	77.	80.	С	
05.	00.	'''	00.		R for the year 2004 is $\frac{6170}{3.46} = 1783$ and R for the year 2011 is $\frac{16564}{6.29} = 2633$ .
					3.46 3.46 6.29
					360
					As total Pie is divided in 15 years and the average sector becomes $\frac{360}{315} = 24^{\circ}$ . Also R
					increase linearly so angle for the middle year i.e. 2004 is 24°. Now equating the middle
					year with average sector degrees. Angle for 2011 i.e. year of maximum angle is
					2633
					$\frac{2033}{1783} \times 24^{\circ} \approx 36^{\circ}$ . Hence the answer.
84.	89.	99.	94.	D	1765
85.	90.	100.	95.	C	
86.	91.	101.	96.	В	
87.	92.	102.	97.	D	
88.	93.	103.	98.	A	
89.	94.	84.	99.	Α	
90.	95.	85.	100.	D	
91.	96.	86.	101.	В	
92.	97.	87.	102.	A	
93.	98.	88.	103.	Е	
94.	99.	89.	84.	В	
95.	100.	90.	85.	С	
96.	101.	91.	86.	A	
97.	102.	92.	87.	C	
98.	103.	93.	88.	Е	
99.	84.	94.	89.	D	
100.	85.	95.	90.	D	
101.	86.	96.	91.	D	
102.	87.	97.	92.	С	
103.	88.	98.	93.	В	