

IAS Exam Congress

Civil Services (Prelims) 2024

CSAT Answer Key with Solutions

SET-A

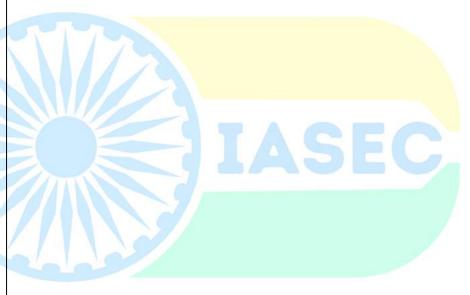


According to the Food and Agriculture Organization, one-third of food produced for human consumption is lost or wasted globally. Food is lost or wasted throughout the supply chain, from initial agricultural production to final household consumption. The increasing wastage also results in land degradation by about 45%, mainly due to deforestation, unsustainable agricultural practices, and excessive groundwater extraction. The energy spent over wasted food results in about 3.5 billion tonnes of carbon dioxide production every year. Decay also leads to harmful permissions of other gases in the atmosphere. Addressing the loss and wastage of food in all forms is critical to complete the cycle of food efficiency and food sustainability.

- Which of the following statements best reflect the most logical and rational inferences that can be made from the passage?
 - 1. The current methods of food distribution are solely responsible for the loss and wastage of food.
 - 2. Land productivity is adversely affected by the prevailing trend food loss and wastage.
 - 3. Reduction in the loss and wastage of food results in lesser carbon footprint.
 - 4. Post-harvest technologies to prevent or reduce the loss and wattage of food are not available.

Select the correct answer using the code given below:

- (a) 1, 2 and 3
- (b) 2 and 3 only
- (c) 1, 3 and 4
- (d) (d) 1, 2 and 4





Q. No	Question	Solution
2	Based on the above passage, the	
	following assumptions have been	
	made:	
	1. The food distribution	
	mechanism needs to be	
	reimagined and made effective	
	to reduce the loss and wastage	
	of food.	
	2. Ensuring the reduction of	
	wastage and loss of food is a	
	social and moral responsibility	
	of all citizens.	
	Which of the assumptions given above	
	is/are valid?	
	(a) 1 only	
	(b) 2 only	
	(c) Both 1 and 2	
	(d) Neither 1 nor 2	



(d) Neither 1 nor 2

Q. No Question **Solution** As inflation rises, even governments previously committed to budget discipline are spending freely to help households. Higher interest rates are announced by central banks are supposed to help produce modest fiscal austerity, because to maintain stable debts while paying more to borrow, governments must cut spending or raise taxes. Without the fiscal backup, monetary policy eventually loses traction. Higher interest rates become inflationary, not disinflationary, because they simply lead governments to borrow more to pay rising debt-service costs. The risk of monetary unmooring is greater when public debt rises, because interest rates become more important to budget deficits. Which of the following statements best reflects/reflect the most logical and rational inferences/inferences that can be made from the passage? 1. Central banks cannot bring without down inflation budgetary backing. 2. The effects of monetary policy depend on the fiscal policies pursued by the government. Select the correct answer using the code given below: (a) 1 only (b) 2 only (c) Both 1 and 2



Q. No	Question	Solution
4	Based on the above passage, the following assumptions have been made: 1. Fiscal policies of governments are solely responsible for higher prices. 2. Higher prices do not affect the long-term government bonds. Which of the assumptions given above is/are valid? (a) 1 only (b) 2 only (c) Both 1 and 2	
5	(d) Neither 1 nor 2 What is the least possible number of cuts required to cut a cube into 64 identical pieces? (a) 8 (b) 9 (c) 12 (d) 16	Permod use formula $ \begin{array}{ccc} & 0 & 0 & 0 \\ & 0 & 0 & 0 \\ & 0 & 0 & 0 \\ & 0 & 0 & 0 \\ & 0 & 0 & 0 \\ & 0 & 0 & 0 \\ & 0 & 0 & 0 \\ & 0 & 0 & 0 \\ & 0 & 0 & 0 \\ & 0 & 0 & 0 \\ & 0 & 0 & 0 \\ & 0 & 0 & 0 \\ & 0 & 0 & 0 \\ & 0 & 0 & 0 \\ & 0 & 0 & 0 \\ & 0 & 0 & 0 \\ & 0 & 0 & 0 \\ & 0 & 0 & 0 \\ & 0 & $
6	In the expression 5 * 4* 3* 2* 1, * is chosen from +, -, × each at most two times. What is the smallest non-negative value of the expression? (a) 3 (b) 2 (c) 1 (d) 0	* Hit 8 faiat I SING CSE PREPARATION 5-4-3+2×1 ⇒ 0



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Q. No	Question	Solution
7	A certain number of men can complete a piece of work in 6k days, where k is a natural number. By what percent should be number of men be increased so that the work can be completed in 5k days? (a) 10% (b) (50/3)% (c) 20%	men x days = Const. $x \times 6k = y \times 5k$ $\left\{x \& y \rightarrow no. of men mespect.\right\}$ $y = \frac{6}{5}x$ $\frac{6}{5}x - \frac{2}{5}x \times 100$ $\Rightarrow \frac{1}{5} \times 100$ $\Rightarrow \frac{20}{5}$
8	(d) 25% X, Y and Z can complete a piece of work individually in 6 hours, 8 hours and 8 hours respectively. However, only one person at a time can work in each hour and nobody can work for two consecutive hours. All the engaged to finish the fork. What is the minimum amount of time that they will take to finish the work. (a) 6 hours 15 minutes (b) 6 hours 30 minutes (c) 6 hours 45 minutes (d) 7 hours	$y = \frac{6}{5}x$ Inchease = $\frac{6}{5}x - x$ $x = \frac{6}{5}x - x$ $x = \frac{1}{5}x = 100$ $x = \frac{20}{5}$ * we have to find the min. amount of time, efficiency of a six highest \rightarrow Give him more work. * but remaining work = 3 units \[\frac{4+3+4+3+4+3+4}{2} + \frac{4}{3} +



Q. No	Question	Solution
9	How many consecutive zeros are there	we have to find no of (5x2)s in product. Observe that no of 2s > no of 5s.
	at the end of the integer obtained in	Citize no al E mill sullice
	the product	finding no. of 35 mail suffice.
	$1^2 \times 2^4 \times 3^6 \times 4^8 \times \times 25^{50}$?	finding no. of S_8 will suffice. No. of $S_8 \Rightarrow 5^{10} \times 10^{20} \times 15^{30} \times 20^{40} \times 25^{50}$
	(a) 50	$10 + 20 + 30 + 40 + 100 \Rightarrow 200$
	(b) 55	10 7 20 7 40 7 100 2 400.
	(c) 100	
	(d) 200	
10	On January 1st, 2023, a person saved	I Jam \Rightarrow $0 \neq 0 \Rightarrow 0 + 2 \neq 0 \Rightarrow 0$
	Rs 1. On January 2nd, 2023, he saved	2 Tm = 0+2 7
	Rs. 2 more than that on the previous	2 1 - A Q D = -> 5 1+3+5+
	day. On January 3rd, 2023, he saved	a down = 0 + 60 + 60 +
	Rs. 2 more than that on the previous	It had sominge should be perfect sq. & Cube
	day and so on. At the end of which date	Total Savings Olioma
	was his total savings a perfect square	τ_{um} of n odd teyms = (n^2)
	as well a perfect cube?	agin of 11 odd 10 mm
	(a) 7th January, 2023	* either check by options on by hit & towar
	(b) 8th January, 2023	10^{-10}
	(c) 9th January, 2023	a jam ⇒ 0 + (2)
	(d) Not possible	y3 8



difficult.

Q. No Question Solution

Today, if we consider cities such as New York, London and Paris as some of the most iconic cities in the world, it is because plans carrying a heavy systems approach were imposed on their precincts. The backbone of the systems theory is the process of translating social, spatial and cultural desirables into mathematical models using computing, statistics, optimization and an algorithmic way of formulating and solving problems. The early universities of the West which began to train professionals in planning, spawned some of the most ingenious planners, who were experts in these domains. The was because these very subjects were absorbed into the planning curriculum that had its roots in the social sciences, geography and architecture. Planning in India, and its education differ from the West.

Which one of the following statements 11 best reflects the most logical and rational inference that can be made from the above passage? (a) Curriculum for urban planning courses should have diverse interdisciplinary and approach. (b) In India, city administration is under bureaucracy which lacks formal training in urban planning and management. (c) In India, the management of urban areas is a local affair with chronic problem of **DEMOCRATISING CSE PREPARATION** insufficient funds. (d) With high density of population and widespread poverty in our urban areas, planned development in them is very



Q. No	Question	Solution
12	Based on the above passage, the	
	following assumptions have been	
	made:	
	1. India needs a new generation of	
	urban professionals with	
	knowledge relevant to modern	
	urban practice.	
	2. Indian universities at present	
	have no capacity or potential to	
	impart training in systems	
	approach.	
	Which of the assumptions given above	
	is/are correct?	
	(a) 1 only	
	(b) 2 only	
	(c) Both 1 and 2	
	(d) Neither 1 nor 2	



Q. No	Question	Solution		
Not ever	ry voice on the internet commands the sa	me kind of audience. When annonymous private entities with high capital can pay for more space for their		
		e. If political discourse in the digital sphere is a matter of outshining one's opponent till the election is won,		
then the	e quality of politics suffers. The focus of s	social media is restricted to the promotion of content that generates more user engagement, regardless of		
how infl	ammatory the content may be.			
13	Which one of the following statements			
	best reflects the central idea of the			
	above passage ?			
	(a) Constructed as a marketplace of			
	views, social media ensures			
	instant access to information.			
	(b) Social media are not ideal or			
	moral institutions but the			
	products built by companies to			
	<mark>make profits.</mark>	SIASEC		
	(c) Social media have been created			
	to strengthen democracies.			
	(d) In today's world, social media			
	are inevitable for well-informed			
	social life.			



Q. No	Question	Solution
14	Based on the above passage, the following assumptions have been made: 1. Internet is not inclusive enough. 2. Internet can adversely affect the quality of policies in a country. Which of the assumptions given above is/are valid? (a) 1 only (b) 2 only (c) Both 1 and 2 (d) Neither 1 nor 2	TASEC
15	222 ³³³ + 333 ²²² is divisible by which of the following numbers? (a) 2 and 3 but not 37 (b) 3 and 37 but not 2 (c) 2 and 37 but not 3 (d) 2, 3 and 37	$(222)^{333} + (333)^{222} \Rightarrow (2x3x37)^{383} + (3x3x37)^{222}$ Divisible by $2 \Rightarrow \qquad \qquad x \Rightarrow x$ Divisible by $3 \Rightarrow \qquad \qquad \Rightarrow \checkmark$
16	What percent of water must be mixed with honey so as to gain 20% by selling the mixture at the cost price of honey? (a) 20% (b) 10% (c) 5% (d) 4%	DEP 1201- PEPTISING CSE PREPARATION 100 1201- 120 Cithen inchease 201- price On inchease 201- quantity.



Q. No	Question	Solution
17	What is the rightmost digit preceding the zeros in the value of 30 ³⁰ ? (a) 1 (b) 3 (c) 7 (d) 9	$(30)^{30} \xrightarrow{30} 3^{1} = 3$ $\Rightarrow (3\times10)^{30}$ $\Rightarrow 3^{30} \times 10^{30}$ $\Rightarrow 2^{30} \times 10^{30}$ Unit Digit = 9 Unit place will be the sughtmost
18	421 and 427, when divided by the same number, leave the same remainder 1. How many numbers can be used as the divisor in order to get the same remainder 1? (a) 1 (b) 2 (c) 3 (d) 4	421 420 420 420 420 420 420 420 420
19	A can X contains 399 litres of petrol and a can Y contains 532 litres of diesel. They are to be bottled in bottles of equal size so that whole of petrol and diesel would be separately bottled. The bottle capacity in terms of litres is an integer. How many different bottle sizes are possible? (a) 3 (b) 4 (c) 5 (d) 6	3 399 7 133 2 266 7 133 19 19 1 19 19 19 DEMOCRATISING CSE PREPARATION HCF = 133 Light no. of factors in 7×19' => (1+1) (1+1) => 9



Q. No	Question	Solution
20	Consider the following statements in	
	respect of the sum $S = x + y + z$, where	
	x, y and z are distinct prime numbers	5-2+4+7 (x4.7)=) 5925 73
	each less than 10:	8 - 21/12 (xight) = {2.51511]
	1. The unit digit of S can be o.	$S = x + y + z$ $(x, y, z) \Rightarrow \{2, 3, 5, 7\}$
	2. The unit digit of S can be 9.	2 3 7 => 12
	3. The unit digit of S can be 5.	2 57 => 14
	Which of the statements given above	
	are correct?	3 57 => 15V
	(a) 1 and 2 only	
	(b) 2 and 3 only	
	(c) 1 and 3 only	
	(d) 1, 2 and 3	



By the time children reach class 8, the bulk of them tend to be in the age range of 13 years to 15 years. But in our country, about a quarter of aII children in class 8 struggle with reading simple texts and more than half are still unable to do basic arithmetic operations like division. Every year about 25 million young boys and girls from elementary school move into the life that lies for them beyond compulsory schooling. They cannot enter the workforce at least in the organized sector till they are 18. For many families, these children are the first from their families ever to get this far in school. Parents and children expect that such 'graduates' from school will go on to high school and college. Hardly anyone wants to go back to agriculture. On the other hand, abilities in terms of academic competencies are far lower than they should be even based on curricular expectations of class 8.

Based on the above passage, the 21 following assumptions have been made: 1. For effective school education. parents have greater role than the governments. curriculum 2. School that today's conforms to requirements and is uniform for the entire country may address the issues brought out. Which of the assumptions given a is/are valid? (a) 1 only (b) 2 only **DEMOCRATISING CSE PREPARATION** (c) Both 1 and 2 (d) Neither 1 nor 2



Q. No	Question	Solution
22	Which one of the following statements	
	best reflects the central idea conveyed	
	by the passage?	
	(a) Total eradication of poverty in	
	the country will resolve the	
	issue of under-performance of	
	our school-children.	
	(b) Monetary incentives to parents	
	and teachers is a strategy to	
	improve the children's	
	academic performance.	
	(c) Public policy should ensure	
	that competencies and	
	achievements of young people	
	are aligned with their	
	expectations.	
	(d) India is not going to take	
	advantage of the demographic	
	dividend unless some school	
	passouts go back to agriculture.	



Q. No	Question	Solution	
We take	We take it for granted now that science has a social responsibility. The idea would not have occurred to Newton or Galileo. They thought of science as an		
	account of the world as it is, and the only responsibility that they acknowledged was to tell the truth. The idea that science is a social enterprise is modern		
	•	surprised that we cannot trace a social sense further back, because we nurse the illusion that the industrial	
revolution	on ended a golden age.		
23	Which one of the following statements		
	best reflects the thinking of the author		
	about the science?		
	(a) Science must value the		
	commitment of the scientists.		
	(b) Science is a product of civilized		
	society and must be used for		
	the promotion of scientific		
	awareness in people.		
	(c) Industrial revolution was made		
	possible by the advancements		
	in science.		
	(d) Science must pursue truth but		
	be responsible for social welfare.		
24	Consider the sequence	put the options & truy to find pattern.	
	A_BCD_BBCDABC_DABC_D that		
	follows a certain pattern. Which one of	(C) AABCDABCDABCDABCDDREPARATION	
	the following completes the sequence?		
	(a) B, A, D, C		
	(b) B, A, C, D		
	(c) A, A, C, D		
	(d) A, A, D, C		



Q. No	Question		Solution
25	Two persons P and Q enter into a business. P puts ₹ 14,000 more than Q, but P has invested for 8 months and Q has invested for 10 months. If P's share is ₹ 400 more than Q's share out of the total profit of ₹ 2,000, what is the capital contributed by P? (a) ₹ 30,000 (b) ₹ 26,000 (c) ₹ 24,000 (d) ₹ 20,000	P \rightarrow Q+14000 8 (1) $\rho = x + 400$ $\Rightarrow x + x + 400 = 2000$ $\Rightarrow x = 800$ Profit = Investment x time Profit of $\rho = \frac{1200}{900} = \frac{(Q+14000) \times 8}{Q \times 10}$ Profit of $\rho = \frac{1200}{900} = \frac{(Q+14000) \times 8}{Q \times 10}$	(Q+14000)×16 = ₹×Q×10 14Q = 14000×16 <u>Q= 16000</u> P⇒ 16000+14000 ⇒ <u>₹0,000</u> .
26	P's salary is 20% lower than Q's salary which is 20% lower than R's salary. By bow much percent is R's salary more than P's salary? (a) 48.75% (b) 56.25% (c) 60.50% (d) 62.25%	$P : Q : R 64 < \frac{-201}{-16} 80 < \frac{-201}{-20} 100 \frac{100-64}{64} \times 100 \Rightarrow \frac{36}{64} \times 100 = 56.25$	
27	A number is mistakenly divided by 4 instead of multiplying by 4. What is the percentage change in the result due to this mistake? (a) 25% (b) 50% (c) 72.75% (d) 93.75%	DEMOCRAYAS $\frac{\alpha}{4}$ IG CSE PREPARATION Thomse = $\frac{16\alpha - \alpha}{4\alpha}$ x100 => 93.75 .	



Q. No	Question	Solution
28	In an examination, 80% of students passed in English, 70% of students passed in Hindi and 15% failed in both the subjects. What is the percentage of students who failed in only one subject? (a) 15% (b) 20% (c) 25% (d) 35%	$80+70-x=85$ $\Rightarrow x=65.1$ Tailed in only one \Rightarrow pass in only one (i.e. either \in on \in 15+5 $\Rightarrow 20.1$
29	A father said to his son, "n years back I was as old as you are now. My present age is four times your age n years back". If the sum of the present ages of the father and the son is 130 years, what is the difference of their ages? (a) 30 years (b) 32 years (c) 34 years (d) 36 years	Counterly: $x = 4(y-n)y$ N years: $x = 4(y-n)y$ back $y = 30-30$
30	Consider the following: 1. 1000 litres = 1m³ 2. 1 metric ton = 1000 kg 3. 1 hectare = 10000 m² Which of the above are correct? (a) 1 and 2 only (b) 2 and 3 only (c) 1 and 3 only (d) 1, 2 and 3	DEMOCRATISING CSE PREPARATION



"The history of science is the real history of mankind- In this striking epigram, a nineteenth-century writer links science with its background. Like most epigrams, its power lies in emphasizing by contrast an aspect of truth which may be easily overlooked. In this case, it is easy to overlook the relations between science and mankind, and to treat the former has some abstract third party, which can sometimes be praised for its beneficial influences, but frequently and conveniently blamed for the horrors of war. Science and mankind cannot be divorced from time to time at men's convenience. Yet we have seen that, in spite of countless opportunities of improvement, the opening years of the present period of civilization have been dominated by international conflict. Is this the inevitable result of the progress of science or does the fault lie elsewhere?

Which of the following is/are emphatically conveyed by the author of the passage?

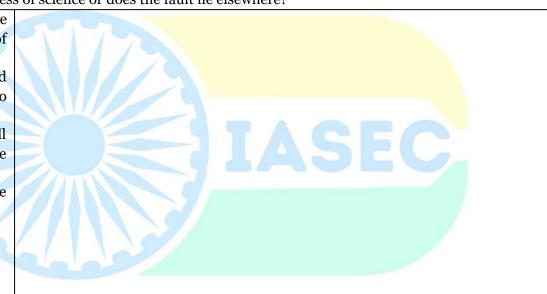
1. Without science, mankind could not have continued to exist till today.

2. It is the science that will ultimately determine the destiny of mankind.

Select the correct answer using the code given below.

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2

(d) Neither 1 nor 2





Q. No	Question	Solution
32	Based on the above passage, the	
	following assumptions have been	
	made:	
	1. The horrors of modern life are	
	the inevitable result of the	
	progress of science.	
	2. The aspect of truth likely to be	
	overlooked is that science is	
	what man has made it.	
	Which of the assumptions given above	
	is/are correct?	
	(a) 1 only	
	(b) 2 only	
	(c) Both 1 and 2	
	(d) Neither 1 nor 2	



Q. No	Question	Solution
Only wi	th long experience and opening of his wa	res on many a beach where his language is not spoken, will the merchant come to know the worth of what
he carri	es, and what is parochial and what is univ	versal in his choice. Such delicate goods as justice, love and honour, courtesy, and indeed all the things we
	·	usly moulded and often differently handled, and sometimes nearly unrecognizable if you meet them in a
foreign]		common values is perhaps the greatest gain of travel to those who wish to live at ease among their fellows.
33	When we meet other people while we	
	travel, we learn to differentiate	
	between	
	(a) imagination and understanding	
	(b) communities and nationalities	
	(c) local values and universal	
	values	
0.4	(d) friends and foes	
34	With reference to the above passage,	
	the following assumptions have been made:	
	1. Travel leads to an	
	understanding of humans.	
	2. Travel helps those who wish to	
	learn fundamental common	
	values.	
	3. A person with long experience	
	in travel can resolve differences	DEMOCRATISING CSE PREPARATION
	amongst people.	
	Which of the assumptions given above	
	are valid?	
	(a) 1 and 2 only	
	(b) 2 and 3 only	
	(c) 1 and 3 only	
	(d) 1, 2 and 3	



Q. No	Question	Solution
35	Let X be a two-digit number and Y be another two-digit number formed by interchanging the digits of X. If (X + Y) is the greatest two-digit number, then what is the number of possible values of X? (a) 2 (b) 4 (c) 6 (d) 8	$X = mn = 10m+n$ $Y = nM = 10n+M$ $X+Y = 10m+n + 10n+M$ $= 11 \frac{(m+n)}{max} = 9$ $\Rightarrow m = n$ $8 $
36	Consider the following: Weight of 6 boys = Weight of 7 girls = Weight of 3 men = Weight of 4 women If the average weight of the women is 63 kg, then what is the average weight of the boys? (a) 40 kg (b) 42 kg (c) 45 kg (d) 63 kg	6x avg. wt. of boux = 4x avg wt. of momen 6x = 4x kg x = 4x kg
37	How many times the hour minute hand coincide in a clock between 10:00 a.m. and 2.00 p.m. (same day)? (a) 3 times (b) 4 times (c) 5 times (d) 6 times	10-11 AM → ① 11AM-IPM → ① Aut 12:00 G CSE PREPARATION 1PM-2PM → ① 3



Q. No	Question	Solution
38	The calendar for the year 2025 is same for (a) 2029 (b) 2030 (c) 2031 (d) 2033	leap year = Jame calender after 28 years LY. + 1 = "
39	Let p, q, r and s be distinct positive integers. Let p, q be odd and r, s be even. Consider the following statements: 1. (p-r)² (qs) is even. 2. (q-s)q² s is even. 3. (q + r)² (p + s) is odd. Which of the statements given above are correct? (a) 1 and 2 only (b) 2 and 3 only (c) 1 and 3 only (d) 1, 2 and 3	P. $\varphi \Rightarrow oold$ M. $s \Rightarrow even$ (i) $(P-H)^2 q_s$ (i) $even$ (i) $even$ (i) $even$ (i) $even$ (i) $even$ (i) $even$ (ii) $even$ (iii) $even$ (iv) $even$
40	What is the angle between the minute hand and hour hand when the clock shows 4:25 hours? (a) 12.5° (b) 15° (c) 17.5° (d) 20°	4:25 x30 EM XS: SRATISING CSE PREPARATION [4x30 - 25x5.5] ⇒ 17.5°



Conventional classrooms, by emphasizing fixed duration over learning effectiveness, resign themselves to variable outcomes. The tyranny of the classroom is that every learner is subjected to the same set of lectures in the same way for the same duration. In the end, a few learners shine, some survive, and the rest are left behind. After the fixed duration, the classroom model moves on, with not a thought spared for those left behind. This is how we end up with 10 percent employability in our graduates after a decade and half of formal education. Repeating the same ineffectual script in the realm of skill education will not produce different results.

- Which of the following statements best reflects/reflect the most logical and rational inference/inferences that can be made from the passage?
 - 1. In conventional classroom learning, the central goal is duration of learning rather than attainment of competency.
 - 2. Conventional classrooms encourage one-size-fits-all approach and stamp out all differentiation.

Select the correct answer using the code given below.

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2





Q. No	Question	Solution
Q. No 42	Based on the above passage, the following assumptions have been made: 1. As a large number of workers in our country are employed in unorganized sector, India does not need to change its present conventional classroom system of education. 2. Even with its present conventional classroom system of education, India produces sufficient number of skilled workers to fully realize the benefits of demographic dividend. Which of the assumptions given above is/are valid? (a) 1 only (b) 2 only	IASEC
	(c) Both 1 and 2 (d) Neither 1 nor 2	DEMOCRATISING CSE PREPARATION



Q. No	Question	Solution
When a	child reaches adolescence, there is apt t	to be a conflict between the parents and the child, since the latter considers himself to be by now quite
capable	of managing his own affairs, while the	former are filled with parental solicitude, which is often a disguise for love of power. Parents consider,
usually,	that the various moral problems which a	rise in adolescence are peculiarly their province. The options they express, however, are so dogmatic that
the your	ng seldom confide in them, and usually go	their own way in secret.
43	Based on the above passage, the	
	following assumptions have been	
	made:	
	1. The adolescent does not feel	
	comfortable with his parents	
	because they tend to be	
	dominating and assertive.	
	2. The adolescent of modern times	
	does not have much respect for	
	parents.	
	Which of the assumptions given above	
	is/are valid?	
	(a) 1 only	
	(b) 2 only	
	(c) Both 1 and 2	
	(d) Neither 1 nor 2	



Q. No	Question	Solution
44	Which one of the following statements	
	best reflects the central idea of the	
	above passage?	
	(a) Parents in general may not be	
	of much help when children are	
	on their way to becoming	
	<mark>adults.</mark>	
	(b) When children reach	
	adolescence, involvement of	
	parents in their lives is	
	unnecessary.	
	(c) Modern-day nuclear families	
	are not capable of bringing up	
	children properly.	
	(d) In modern societies,	
	adolescents tend to be	
	stubborn, disobedient and	
	careless.	4-1
45	What is the number of fives used in	$10. \text{ of } S_s \Rightarrow S.15.25 95 \Rightarrow 00$ $150.151 159 \Rightarrow 00$ $150.215 259 \Rightarrow 00$ $150.251 259 \Rightarrow 00$
	numbering a 260-page book?	205.215 255 => 6 250, 251, 259 => 10
	(a) 55	DEMOCRATISING CSE PREPARATION
	(b) 56	DEMOCRATISING CSE PREPARATION Total = 10+10+6+10+10+10
	(c) 57	= 6
	(d) 60	- 9



Q. No	Question	Solution
46	What is the sum of the first 28 terms in the following sequence? 1, 1, 2, 1, 3, 2, 1, 4, 3, 2, 1, 5, 4, 3, 2, (a) 83 (b) 84	1.1, 2.1, 3.2, 1, 4.3.2, 1, 5.4.3,2, 1, 6.5.4.3.2, 1, 7.6.5,4.3,2 (1) 1 3 6 10 15 28 28 28 29th term Zum of 28 forms ⇒1+1+3+6+10+15+21+28 -1 €
47	(c) 85 (d) 86 A person buys three articles P, Q and R	7 (<u>PQ)</u> F
4/	for ₹ 3,330. If P costs 25% more than R and R costs 20% more than Q, then what is the cost of P? (a) ₹ 1,000 (b) ₹ 1,200 (c) ₹ 1,250 (d) ₹ 1,350	SO = SO + 201 + 20
48	If the sum of the two-digit numbers AB and CD is the three-digit number 1CE, where the letters A, B, C, D, E denote distinct digits, then what is the value of A? (a) 9 (b) 8 (c) 7 (d) Cannot be determined due to insufficient data	AB $8+D = 1E$ CD $1+A+C = 1C1CE$ $1+A+C = 10+CDEMOCRATISI A=q E PREPARATION$



Q. No	Question	Solution
49	Three numbers x, y, z are selected from the set of the first seven natural numbers such that x > 2y > 3z. How many such distinct triplets (x, y, z) are possible? (a) One triplet (b) Two triplets (c) Three triplets (d) Four triplets	1,2,3,4,5,6,7 x,24,5,6,7 6 "" 7 > 2x2 > 3x1 9 txiplets.
50	The total cost of 4 oranges, 6 mangoes and 8 apples is equal to twice the total cost of 1 orange, 2 mangoes and 5 apples. Consider the following statements: 1. The total cost of 3 oranges, 5 mangoes and 9 apples is equal to the total cost of 4 oranges, 6 mangoes and 8 apples. 2. The total cost of one orange and one mango is equal to the cost of one apple. Which of the statements given above is/are correct? (a) 1 only (b) 2 only (c) Both 1 and 2 (d) Neither 1 nor 2	40 + 6m + 8A = 2 (0 + 2m + 5A) $40 + 6m + 8A = 20 + 4m + 10A$ $20 + 2m - 2A = 0$ $0 + m - A = 0$ $0 + m - A = 0$ $0 + m - A = 0$ DE $0 + m = A$ $0 + m - A = 0$



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Q. No	Question	Solution
When a	n international team of pumped a carbo	on dioxide and water mix into underground basalt rocks, basic chemistry took over. The acidic mixture
dissolve	d rocks' calcium and magnesium and form	ned limestone Basically carbon dioxide is converted into stone, exclaimed the scientists.
51	Which one of the following statements	
	best reflects the most logical, rational	
	and practical suggestion implied by the	
	passage?	
	(a) It is a cheap and practical	
	method to produce limestone at	
	commercial level for building	
	purposes.	
	(b) This can be used as one of the	
	methods of carbon	
	sequestration.	
	(c) Basalt rock can be made a good	E I I A S E C.
	source of calcium and	
	magnesium minerals by this	
	method.	
	(d) Good rock-dissolving acid can	
	be produced by mixing carbon	
	dioxide and water.	



Q. No	Question	Solution
Geograp	ohers analyzed 175 satellite images of ocea	an colour, which is an indicator of Phytoplankton productivity at the ocean's surface, and found that giant
_		cent of carbon in the Southern Ocean. The researchers discovered that melting water from giant icebergs
which co	ontains iron and other nutrients, supports	hitherto unexpectedly high levels of phytoplankton growth.
52	Based on the above passage, the	
	following assumptions have been	
	made:	
	1. Giant icebergs have a bearing	
	on primary productivity and	
	food chains of the Southern	
	Ocean.	
	2. Melting of giant icebergs can	
	produce climate change effects	
	and impact world fisheries.	
	Which of the assumptions given above	E SIASEC.
	is/ are valid?	
	(a) 1 only	
	(b) 2 only	
	(c) Both 1 and 2	
	(d) Neither 1 nor 2	



Q. No	Question	Solution				
	Evolution has endowed caterpillars that feed on corn with a unique ability, they can induce the plant to turn off its defence against insect predators. This					
	helps caterpillars to eat more and grow faster. The agent that causes this effect is the caterpillar's faeces or frass. The find could throw new light on					
compour	compounds associated with plant response to pathogens like fungi or bacteria.					
53	Which one of the following statements					
	best reflect the most logical and					
	rational and practical message					
	conveyed by the passage?					
	(a) Farmers can use caterpillars to					
	feed on weeds in their crop					
	fields/plantations.					
	(b) This finding can help in the					
	development of clinically useful					
	antimicrobial compounds.					
	(c) This finding can help in the					
	development of organic,					
	ecologically sustainable					
	pesticides.					
	(d) Caterpillars can be genetically					
	modified to be predators of the					
5 4	other plant pests.	(as)5 , a27				
54	$32^5 + 2^{27}$ is divisible by	DEMOCRATISING CSE DDEDARATION				
	(a) 3	225 (1+22) => 225 x 5 => 10 x 224 Divisible by 10				
	(b) 7	$g^{25}(1+g^2) \Rightarrow a^{25} \times 5 \Rightarrow \underline{10} \times a^{25}$				
	(c) 10	Divisible by (10)				
	(d) 11	70				



Q. No	Question	Solution
55	Let p and q be positive integers satisfying p <q (a)="" (b)="" (c)="" (d)="" 3="" 4="" 5="" 6<="" and="" determine="" does="" is="" k="" not="" of="" p="" p+q="k." q="" smallest="" th="" that="" the="" uniquely?="" value="" what=""><th>P+9 = K 1+2 = 3 1+3 = 4 1+4 = 5 2+3 = 5 Com not object wine P&9 uniquely.</th></q>	P+9 = K 1+2 = 3 1+3 = 4 1+4 = 5 2+3 = 5 Com not object wine P&9 uniquely.
56	A person walks 100 m straight from his house, turns left and walks 100 m, again turns left and walks 300 m, then turns right and walks 100 m to reach his office. In which direction does he walk initially from his house if his office is exactly in the North-East direction? (a) North-West (b) West (c) South (d) South-West	walk initially in gouth
57	A person walks 100 m Westward, then turns left and walks 100 m. He then takes 225° turn clockwise. In which direction is he walking now? (a) South-West (b) South-East (c) North-West (d) North-East	DEMOCRATISING CSE PREPARATION N-E S S



Q. No	Question	Solution
58	A Statement is given followed by two	
	Conclusions numbered I and II.	
	Consider the Statement and the	
	Conclusions.	
	Statement :	
	India is the world's largest producer of	
	milk.	
	Conclusion-I:	$\Delta c = 1$
	India is the world's largest exporter of	— Tproducer -> Texporter.
	milk.	
	Conclusion-II:	A. I. II. /> no impout
	India does not import milk.	pswoj uchwo => no mrtara
	Which one of the following is correct?	
	(a) Only Conclusion-I follows	
	(b) Only Conclusion-II follows	
	(c) Both Conclusion-I and	
	Conclusion-II follow	
	(d) Neither Conclusion-I nor	
	Conclusion-II follows	



Q. No	Question	Solution
59	A Question is given followed by two Statements I and II. Consider the Questions and the Statements. Question: What are the values of m and n, where m and n are natural numbers? Statement-I: m + n > mn and m > n. Statement-II: The product of m and n is 24. Which one of the following is correct in respect of the above Question and the Statements? (a) The Question can be answered by using one of the Statements alone, but cannot be answered using the other Statement alone (b) The Question can be answered by using either Statement alone (c) The Question can be answered by using both the Statements together, but cannot be answered using either Statement alone (d) The Question cannot be answered even by using both the Statement alone	we can not find men uniquely. 2+1 > 2×1 3+1 > 3×1 2 > 1 3>1 2 > 1 3>1 2 > 1 3>1 2 > 1 3>1 2 > 1 3>1 3 > 1 2 > 1 3>1 3 > 1 3 > 1 4 > 2×2 4 Auxi 12×2 8 × 3 6 × 4 But when



(0	Question	Solution
60	A Question is given followed by two Statements I and II. Consider the Questions and the Statements. Question: What is the time required to download the software? Statement-I: The size of the software is 12 megabytes. Statement-II: The transfer rate is 2.4 kilobytes per second. Which one of the following is correct in respect of the above Question and the Statements? (a) The Question can be answered by using one of the Statements alone, but cannot be answered using the other Statement alone (b) The Question can be answered by using either Statement alone (c) The Question can be answered by using both the Statements together, but cannot be answered wing between the statements together, but cannot be answered using either	time = Total value Rate
	(b) The Question can be answered by using either Statement alone (c) The Question can be answered by using both the Statements together, but cannot be	DEMOCRATISING CSE PREPARATION



Q. No Question Solution In a robust democracy, reality, howsoever inconvenient it may be, finds its expression both in the speech of political leaders and the other social forms of assertion. The existence of the real has to be transparent, both through its circulation in and by the media as well as its argumentative articulation in deliberative democracy. A normatively responsible media through its communication effect has the responsibility to circulate the content of reality without distortion. Which one of the following statements 61 best reflects the crux of the above passage? (a) Responsible media should not distort the real in an ideal democracy. (b) Fake news seems inherent in the life of an ideal democracy. (c) There should not be any kind of restrictions on the freedom of in expression an ideal democracy. (d) Irresponsible media and political leaders cannot be effectively controlled in an ideal democracy.



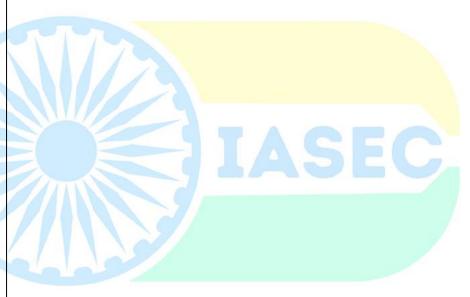
Q. No	Question	Solution	
Now-a-c	day there is a growing trend to use inte	rconnected home devices. As consumers increasingly network their homes, the connected home device	
manufa	nanufacturers and service providers will seek to overcome "thin profit margins by gathering more of our personal data-with or without ou		
agreeme	entturning the home into a corporate stor	efront". Corporate marketers will have powerful incentives to observe consumer behaviour to understand	
the buyi	ng needs and preferences of the device ow	ners.	
62	Which one of the following statements		
	best reflects the most logical, rational		
	and practical message implied by the		
	passage?		
	(a) Knowledge of consumer		
	behaviour leads to more capital		
	expenditure in manufacturing		
	sector.		
	(b) Knowledge of consumer		
	behaviour stimulates the		
	growth of commerce and trade		
	and thus helps in the overall		
	economic development of the		
	country.		
	(c) Interconnected devices give a		
	lot of comfort to home users		
	and improve the overall quality		
	of life.	DEMOCRATISING CSE PREPARATION	
	(d) Interconnected devices can be		
	at security risk and home users		
	may have privacy risk.		



Q. No Question Solution

Green growth involves rethinking growth strategies with regard to the impacts on environmental sustainability and the environmental resources available to poor and vulnerable groups. In rethinking growth, we need to focus on the current reality of a resource-constrained world. Resource intensive and, in particular energy intensive processes will need to make way for more efficient and resource frugal development strategies if we are to avoid an economic dead end or a world in which only a small elite is able to enjoy affluence in the midst of a sea of poverty.

- 63 Which one of the following statements best reflects the crux of the above passage?
 - (a) Environmental sustainability is inimical to our objective of achieving a high rate of GDP growth.
 - (b) Poverty eradication is not possible without a rapid economic growth and the consequent environmental degradation.
 - (c) Maintaining high environmental standards is now a prerequisite for achieving a steady, sufficient and inclusive growth.
 - (d) With large populations, rampant poverty and limited resources of today's world, environmental degradation cannot be prevented and inequalities are inevitable.





Q. No	Question	Solution
Q. No 64	A question is given followed by two Statements I and II. Consider the Question and the Statements. Question: What are the unique values of x and y, where x, y are distinct natural numbers? Statement-I: x/y is odd. Statement-II: xy = 12 Which one of the following is correct in respect of the above Question and the Statements? (a) The question can be answered by using one of the Statements alone, but cannot be answered using the other Statement alone (b) The Question can be answered by using either Statement alone (c) The Question can be answered by using both the Statements together, but cannot be answered using ther Statements together, but cannot be answered using either Statement alone (d) The Question cannot be answered using either Statement alone	$\frac{x}{y} = \text{odd} \qquad y \rightarrow \text{odd} \qquad y \rightarrow \text{even} \qquad y \rightarrow even$
	Statement alone (d) The Question cannot be	



Q. No	Question	Solution
Q. No 65	A Question is given followed by two Statements I and II. Consider the Question and the Statements. A certain amount was distributed among X, Y and Z. Question: Who received the least amount? Statement-I: X received 4/5 of what Y and Z-together received	— we just need to compare. $x = \frac{1}{5}(y+z) \Rightarrow \text{Alone is not sufficient}$ $y = \frac{2}{7}(x+z) \Rightarrow \text{Alone is not sufficient}$ But when $I + II$: $5x = 4y + 4z = 0$ $14y = 2x + 2z - (2) \Rightarrow 14y = 4x + 4z \Rightarrow 9x = 18y$ $x = 24$ Denotrating $x = 2x + 4z \Rightarrow 2x + 4z \Rightarrow 3y = 2x$ $x = 2x + 4z \Rightarrow 3y = 2x$
	3	$\frac{3x = 4z}{3x = 4z} \Rightarrow \frac{x > z > 4}{2}$ $\frac{3x = 4z}{2} \Rightarrow \frac{x > z > 4}{2}$



A Question is given followed by two 66 Statements I and II. Consider the Ouestion and the Statements.

Ouestion:

If the average marks in a class are 60, them what is the number of students in the class?

Statement-I:

The highest marks in the class are 70 and the lowest marks are 50.

Statement-II:

Exclusion of highest and lowest marks from the class does not change the average.

Which one of the following is correct in respect of the above Question and the Statements?

- (a) The Question can be answered by using one of the Statements alone, but cannot be answered using the other Statement alone
- (b) The Question can be answered by using either Statement alone
- (c) The Question can be answered by using both the Statements together, but cannot answered using either Statement alone
- (d) The Question cannot be answered even by using both the Statements together

we need to find the no. of equalents.

avg. = ∞ => not helpful as we do not know how many sludents aconed highest marks & how many scorned lowest.

Both together also can not give me any unique aol^n .

Ex: 70,60,50] satisfies both

70,65,60,55,50] satisfies both

no unique 5017



Q. No	Question	Solution
Q. No 67	A Question is given followed by two Statements I and II. Consider the Question and the Statements. There are three distinct prime numbers whose sum is a prime number. Question: What are those three numbers? Statement-I: Their sum less than 23. Statement-II: One of the numbers is 5. Which one of the following is correct in respect of the above Question and the Statements? (a) The Question can be answered by using one of the Statements alone, but cannot be answered using the other Statement alone (b) The Question can be answered by using either Statement alone (c) The Question can be answered by using both the Statements together, but cannot be answered using both the Statements	- 2.3,5,7,11,13,17,19 2+3+17 = 22 X 2+5+13 = 2/X 2+3+13 = 18 X 2+5+11 = 19 V 2+3+11 = 16 X 2+5+7 = 15 X 2+3+5 = 10 X DEMOCRATISING CSE PAISO AWE do not need IT. So dement in I.
	Statement alone (d) The Question cannot be answered even by using both the Statements together	on smireq



Q. No	Question	Solution
68	A Question if given followed by two	
	Statements I and II. Consider the	
	Question and the Statements.	
	Question:	
	Is $(x+y)$ an integer? $\langle N0 \rangle$	and int
	Statement-1:	-2xty = int
	(2x+y) is an integer.	$\frac{2x+y=int}{2x+1=int} = \frac{2x+1+2=int}{2x+1+2=int} = 2x$
	Statement-II:	$2X_{-+1} = Mf$
	(x+2y) is an integer.	
	Which one of the following is correct in	Tame for this one.
	respect of the above Question and the	dance low line orton
	Statements?	
	(a) The Question can be answered	T + II:
	by suing one of the Statements	$\frac{1}{2x+y} = int - 0$
	alone, but cannot be answered	
	using the other Statement alone	$\chi + 2\mu = 10t - 2$
	(b) The Question can be answered	$\frac{y}{3} - fraction$
	by using either Statement alone	- 15/40/10-1
	(c) The Question can be answered	3(x+y) = 1nt
	by using both the Statements	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~
	together, but cannot be	DEMOCRATISING CSE STEPARATION $\frac{6}{9} = 2 - integer$
	answered using either	DEMOCRATISING $CS = \frac{1}{2} = 2 - integer$
	Statement alone	
	(d) The Question cannot be	not possible to say yes/no.
	answered even by using both	not possible to say yearno.
	the Statements together	



Q. No	Question	Solution
69	A Question is given followed by two Statement I and II. Consider the Question and the Statements. A person buys three articles p, q and r for ₹50. The price of the article q is ₹16 which is the least. Question: What is the price of the article p? Statement-I: The cost of p is not more than that of r. ─ Statement-II: The cost of r is not more than that of p. ─ Which one of the following is correct in respect of the above Question and the Statements? (a) The Question can be answered by using one of the Statements alone, but cannot be answered using the other Statement alone (b) The Question can be answered by using either Statement alone (c) The Question can be answered by using both the Statements together, but cannot be answered using either Statement alone (d) The Question cannot be answered even by using both the Statement alone	P+Q+M = \neq 50 To 16-least P+M = 34 P+M = 34 Interpretation The point of the



A Question is given followed by two Statements I and II. Consider the Question and the Statements. P, Q, R and S appeared in a test.

Question:

Has P scored more marks than Q?

Statement-I:

The sum of the marks scored by P and Q is equal to the sum of the marks scored by R and S.

Statement-II:

The sum of the marks scored by P and S is more than the sum of the marks scored by Q and R.

Which one of the following is correct in respect of the above Question and the Statements?

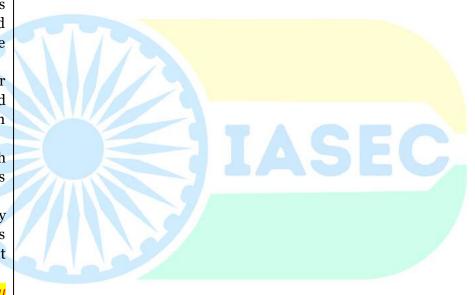
- (a) The Question can be answered by using one of the Statements alone, but cannot be answered using the other Statement alone
- (b) The Question can be answered by using either Statement alone
- (c) The Question can be answered by using both the Statements together, but cannot be answered using either Statement alone
- (d) The Question cannot be answered even by using both the Statements together



Q. No Question Solution

Unlike religion and science, poetry does not posit or expect any belief in absolute truths. Those forces or individuals who claim to have absolute truths in their grasp tend to turn dictatorial and tyrannical. Truth usually does not admit any contradictions or imperfections. It is Unitarian. It is, therefore, not of much use for poetry. Poetry abides by the plurality of life and existence. Perhaps poetry follows reality which is plural, anachronistic, full of contradictions. Against the tyranny of truth, poetry remains a partisan of democratic reality. Against the arrogance of power, wealth and hierarchy, poetry proposes both humility and defiance.

- 71 Which one of the following statements best reflects the most logical and rational message conveyed by the above passage?
 - (a) It is the poetry, not science or religion, which recognizes and accepts imperfections in humans.
 - (b) Truth is revealed through science or religion and poetry is anathema to truth.
 - (c) Poetry is romantic, imaginary and is about feeling whereas science and religion are about truth.
 - (d) In a world of violence, tyranny and bigotry, poetry is a form of dynamic resistance.





Q. No	Question	Solution
72	Based on the above passage, the	
	following assumptions have been	
	made:	
	1. The author of the passage	
	believes that flowers are	
	creations of Nature's luxury.	
	2. The author of the passage does	
	not believe in the usefulness of	
	flowers except as things of	
	beauty.	
	Which of the assumptions given above	
	is/are valid?	
	(a) 1 only	
	(b) 2 only	
	(c) Both 1 and 2	
	(d) Neither 1 nor 2	



Question is given followed by two Statements I and II. Consider the Question and the Statements.

Age of each of P and Q is less than 100 years but more than 10 years. If you interchange the digits of the age of P, the number represents the age of Q. Question:

What is the difference of their ages?

Statement-I: The age of P is greater than the age of Q.

Statement-II: The sum of their ages is 11/6 times their difference.

Which one of the following is correct in respect of the above Question and the Statements?

- (a) The Question can be answered by using one of the Statements alone, but cannot be answered using the other Statement alone
- (b) The Question can be answered by using either Statement alone
- (c) The Question can be answered by using both the Statements together, but cannot be answered using either Statement alone
- (d) The Question cannot be answered even by using both the Statements together

$$P = xy = 10x + y$$

 $Q = yx = 10y + x$

$$\begin{array}{c|c}
10x+y > 10y+x \\
9x > 9y \\
\hline{x} & y \\
3 & 1/2 \\
1/2/3
\end{array}$$

$$\begin{array}{c|c}
10x+y + (10y+x) = \frac{11}{6}[(10x+y) - (10y+x)] \\
11(x+y) = \frac{11}{6}x9(x-y) \\
(x+y)x2 = (x-y)x3 \\
\hline{x} & xy = 3x - 3y \\
\hline{x} & y = 3x - 3y
\end{array}$$

$$\begin{array}{c|c}
10x+y + 2y = 3x - 3y \\
\hline{x} & y = 3x - 3y
\end{array}$$

$$\begin{array}{c|c}
10x+y + 2y = 3x - 3y \\
\hline{x} & y = 3x - 3y
\end{array}$$

$$\begin{array}{c|c}
10x+y + 2y = 3x - 3y \\
\hline{x} & y = 3x - 3y
\end{array}$$

$$\begin{array}{c|c}
10x+y + 2y = 3x - 3y \\
\hline{x} & y = 3x - 3y
\end{array}$$

$$\begin{array}{c|c}
10x+y + 2y = 3x - 3y \\
\hline{y} & y = 3x - 3y
\end{array}$$

$$\begin{array}{c|c}
10x+y + 2y = 3x - 3y \\
\hline{y} & y = 3x - 3y
\end{array}$$



Main Statement is followed by four	
Statements labelled P, Q, R and S.	
-	
•	
Main Statement : Pradeep becomes	
either a Director or a Producer.	
Statement P : Pradeep is a Director.	A Dalament - and gladement
Statement Q : Pradeep is a Producer.	pi ajaj ement va oj in
Statement R : Pradeep is not a	SP. Dradood - X Dradycer Is I That's connect at per main statement.
Director.	at budged 1/ from 1
Statement S: Pradeep is not a	PHOGEOD - V DISPECTON JP J
Producer.	22 O I a Divide TO 2
Select the correct answer.	KA: Haddeeb - X DIHECTON IN ! CONNECT OF DEA MOIN OLD EMEM .
(a) SP only	And spalement. SP: Pradeep - X producer]s That's connect as per main statement. Pradeep - X Director JR Connect as per main statement. RB: Pradeep - X Director JR Connect as per main statement. Pradeep - X Director JR
(b) RQ Ollly	14 deep - 1 - 1 - 1 - 1 - 1
• •	
	10 + 30 -100 x 50 ÷ 25
	10 2 30 × 100 A 50 SI 25 CSE PREPARATION
	10- 30XIDØ +25
	10-30XIDØ +25
2	=) -25
, , ,	
	Choose the ordered pair of the Statements where the first Statement implies the second, and the two Statements are logically consistent with the Main Statement. Main Statement : Prodeen becomes



Q. No	Question	Solution
76	If P means 'greater than (>)'; Q means 'less than (<)'; R means 'not greater than (≯)'; S means 'not less than (≮)' and T means 'equal to (=)', then consider the following statements: 1. If 2x(S)3y and 3x(T)4z, then 9y(P)8z. 94>8Z 2. If x(Q)2y and y(R)z, then x(R)z. Which of the statements given above is/are correct? (a) 1 only (b) 2 only (c) Both 1 and 2 (d) Neither 1 nor 2	$3x = 4z \Rightarrow x = 4z \Rightarrow x = 2y $ $3x = 4z \Rightarrow x = 4z \Rightarrow x = 2y $ $x < 2y $ $y \le z$ $x < 2z $ $x < 2z$ $x < 2z$ $x < 2z$
77	If in a certain code, 'ABCD' is written as 24 and 'EFGH' is written as 1680, then how is 'IJKL' written in that code? (a) 11880 (b) 11240 (c) 7920 (d) 5940	ABCD EFGH IJKL x2x3xy
78	If in a certain code, 'POT' is written as ATOP and 'TRAP' is written as APART, then how is 'ARENA' written in that code? (a) AARENA (b) AANREA (c) AANEAR (d) AANERA	POTMO A TOPTISING CSE PREPARATION TRAP → APART ARENA → AANERA



Q. No	Question	Solution
79	What will come in place of * in the sequence 3, 14, 39, 84, *, 258?	3,14,39,84, *, 258
	(a) 150	3x1,7x2,13x3, 21x4, 31x5
	(b) 155	+u +6 +8 +10 \place
	(c) 160	(122)
	(d) 176	
80	In some code, letters P, Q, R, S, T	Q-S = 2S
	represent numbers 4, 5, 10, 12, 15. It is	0 30
	not known which letter represents	$ \begin{array}{ccc} & U = J & T = R + S + 3 \\ & 12 & 4 & \longrightarrow & T = R + 7 & \Longrightarrow & T - R = 7 \\ & & & & & & & & & & & & & & & & & & $
	which number. If $Q - S = 2S$ and $T = R$	
	+ S + 3, then what is the value of P + R	$15 5 \longrightarrow T = R + 8 \Rightarrow T - R = 8$ $12 - y = 8$
	- T?	P=10
	(a) 1 (b) 2	0=15 $P+R-T$
	(c) 3	R=4 $10+4-12$
	(d) Cannot be determined due to	
	insufficient data	S=5 $T=12$



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