

Examly Level 5 - Test 4

Q. I. $x^2 = (43 + 62) \div 22$ **II.** $y = \sqrt{[(25)^{1/2} \times (625)^{1/4}]}$ $x < y$

Answer : $x > y$

Q. A three digit number is formed by using numbers 1, 2, 3 and 4 without repetition. What is the probability that the number is divisible by 3?

Answer : $1/2$

Q. Each question consists of four sentences on a topic. Some sentences are grammatically incorrect or inappropriate. Identify the incorrect sentence or sentences: A. Tamil Nadu will be the most wired state from the perspective of e-learning. B. At the core of 20 crore project is a Knowledge Data Centre at the Anna University. C. The K.D.C will house information in digital format. D. It can be accessed by students through the state.

Answer : B and D

Q. If the roots of the equation $2x^2 - 5x + b = 0$ are in the ratio of 2:3, then find the value of b?

Answer : 3

Q. A can do a piece of work in 12 days. B is 60% more efficient than A. The number of days, B would take to do the same piece of work is

Answer : $7 \frac{1}{2}$

Q. In a certain code Language 134 means good and tasty 478 means see good picture 729 means picture are faint Which of the following numerical symbol stands for 'see' ?

Answer : 8

Q. Study the diagram given below and answer each of the following questions. How many persons are there who take both tea and coffee but not wine ?

Answer : 7

Q. If $\log 2 = 0.3010$, then the number of digits in 2^{64} is—?

Answer : 20

Q. $0.0004 + 0.0044$

Answer : 0.0048

Q. A man walked 12 km at a certain rate and then 6 km further at a rate of $\frac{1}{2}$ km/hr faster. If he had walked the whole distance at the faster rate, his time would have been 20 minutes less. How long did it really take him to walk the 18 km?

Answer : $13\frac{1}{3}$ hrs

Q. A and B can together complete a task in 18 hours. After 6 hours A leaves. B takes 36 hours to finish rest of the task. How many hours would A have taken to do the task, if he worked alone?

Answer : 27

Q. Ravi spent less than Rs 75 to buy one kilogram each of potato, onion and gourd. Which one of the three vegetables bought was the costliest? I. 2 kg potato and 1 kg gourd cost less than 1 kg potato and 2 kg gourd. II. 1 kg potato and 2 kg onion together cost the same as 1 kg onion and 2 kg gourd. If the data in Statement I alone are sufficient to answer the question, while the data in Statement II alone are not sufficient to answer the question

Answer : If the data in both the Statements I and II together are necessary to answer the question

Q. Identify the one which is opposite in meaning (antonym) to the question word and mark.
Bland

Answer : spicy

Q. Common content Average annual salary offered (in lakhs of Rupees) Question If we arrange the institutes in alphabetical order, then what is the average annual salary offered of the seventh institutes in the given period for placements abroad? (in Rs. lakh)

Answer : 35.6

Q. In the following problems, you are told something about the result, and you must determine what the contents of the boxes must have been, in order to obtain that result. In these problems, the expression (number in box X) is abbreviated as (X). For example: "Is (4) greater than (7)?" means "Is (number in box 4) greater than (number in box 7)?" In each of

the following problems, no two boxes contain the same number. Which of the boxes 1, 2, 3 CANNOT POSSIBLY contain the largest number, the smallest number?

Answer : BOX1, BOX3

Q. 'P +Q' means that P is the son of Q, 'P-Q' means that P is the wife of Q, 'P*Q' means that P is the brother of Q, 'P/Q' means that P is the mother of Q and 'P=Q' means that P is the sister of Q. Then, what does X+Y-Z mean?

Answer : Z is the father of X

Q. Two mutually perpendicular chords AB and CD meet at a point P inside the circle such that AP = 6 cms, PB = 4 units and DP = 3 units. What is the area of the circle?

Answer : $125/4$ sq cms

Q. A clock is set right at 10 AM. The clock gains 10 minutes in 24 hours. What will be the true time when the clock indicates 3 PM the following day?

Answer : 2 : 48 PM

Q. Abhinav and Brijesh start from Allahabad and Barabanki respectively with uniform velocities. Abhinav is headed towards Barabanki and Brijesh towards Allahabad and both cities are 600 km apart. Abhinav rests whenever Brijesh is on the move and Brijesh rests whenever Abhinav is on the move. Abhinav's speed is 25 km/h and Brijesh's speed is 30 km/hr. If Abhinav starts first and reaches Barabanki in 36 hours, then find the least time that Brijesh would take to reach his destination after Abhinav makes a start:

Answer : 44 h

Q. How many squares are there in the following figure ABCD?

Answer : 30

Q. Given $A = 265$ and $B = (264 + 263 + 262 + \dots + 20)$, which of the following is true ?

Answer : A is larger than B by 1

Q. A boy has five coins, each of a different value. How many different sums of money can be totaled with these five coins?

Answer : 31

Q. A man sells an article at 5% above its cost price. If he had bought it at 5% less than what he paid for it and sold it for Rs.2 less, he would have gained 10%. Find the cost price of the article.

Answer : Rs.400

Q. If the given interchanges namely: signs $+$ and \div and numbers 2 and 4 are made in signs and numbers, which one of the following four equations would be correct?

Answer : $2 + 4 \div 6 = 8$

Q. If $x959y$ is divisible by 44 and $y > 5$, then what are values of the digit x and y ?

Answer : $x = 7, y = 6$

Q. What should come in place of question mark in the following question? $4 - 1 + 5 \times 6 \div 2 - 1 = ?$

Answer : 17

Q. John was born on Feb 29th 2012 which happened to be a Wednesday. If he lives to be 101 years old, how many birthdays would he celebrate on a Wednesday?

Answer : 4

Q. Find the next term in the series: 1, 2, 3, 7, 25, 121, ?

Answer : 721

Q. Three wheels are making 60, 36 and 24 revolutions in a minute. If all start with a certain point in their circumference downwards, after how many seconds they will first come all together again in the same position?

Answer : 5 seconds

Q. If $\operatorname{cosec} 2A = \sec(A - \pi/4)$, then $A =$

Answer : $\pi/4$

Q. Direction (Q. 1-5): Study the following table carefully and answer the given questions. Before merging with State Bank of India, a data about employees worked in associate banks. The following table shows the total employees worked in these banks and the ratios of Clerk, PO and SO among them. The total number of Clerks worked in State Bank of Travancore is

approximately what per cent more/less than the total number of Clerkworked inState Bank of Indore?

Answer : 16.25%

Q. MUMBAI: LTLAZH: DELHI:

Answer : CDKGH

Q. A teacher has to choose the maximum different groups of three students from a total of six students. Of these groups, in how many groups there will be included in a particular student?

Answer : 10

Q. A number of sentences are given below which, when properly sequenced, form a coherent paragraph. Each sentence is labelled with a letter. Choose the most logical order of sentences from among the four given choices to construct a coherent paragraph. A. No money actually percolates down to the grass roots, where it is actually needed. B. It is no coincidence that the Maoists have emerged as a significant face precisely during the period that Nepal has been struggling with a farcical democracy. C. Nepal is a country blessed with breath-taking beauty and cursed with corrupt, short-sighted politicians. D. It is all intercepted midway and skimmed by venal elements. E. The arrival of multiparty democracy, for empowering the common people, has only made their plight worse.

Answer : CEADB

Q. A certain sum of money is distributed between two friends in the ratio 5 : 11. If one of them gets Rs.1250 more than the other, then the sum is

Answer : > Rs.3000

Q. Identify the figure that completes the pattern.

Answer : 1

Q. Point A is in which direction with respect to point B? I. Point D is to the east of point A. Point A is to the south of point F. Point B is in southwest of point D. II. Point F is to the north-west to point B. Point B is to the south of point D which is east of Point F. Point A is in north of point D.

Answer : if the data in statement II alone are sufficient to answer the question, while the data in statement I alone are not sufficient to answer the question.

Q. From a full barrel containing 729 litres of honey we pour off 'a' litre and add water to fill

up the barrel. After stirring the solution thoroughly, we pour off 'a' litre of the solution and again add water to fill up the barrel. After the procedure is repeated 6 times, the solution in the barrel contains 64 litres of honey. Find a.

Answer : 243 litres

Q. A cuboid wooden box measures externally 10 cm long , 8 cm broad and 6 cm high and thickness of wood is 0.5 cm. Find the amount of wood used

Answer : 165 cubic cm

Q. The average marks of Suresh in 10 papers are 80. If the highest and the lowest scores are not considered, the average is 81. If his highest score is 92, find the lowest score.

Answer : 60

Q. Common content Study the following information carefully to answer the given questions: Twelve people are sitting in two parallel rows containing six people each, in such a way that there is an equal distance between adjacent persons. In row-1 J, K, L, M, N and O are seated and all of them are facing south. In row-2 U, V, W, X, Y and Z are seated and all of them are facing north. Therefore, in the given seating arrangement each member seated in a row faces another member of the other row. M sits third to right of K. Either M or K sits at an extreme end of the line. The one who faces K sits second to right of Y. Two people sit between V and Z. Neither V nor Z sits at an extreme end of the line. The immediate neighbour of V faces the person who sits third to left of J. L and N are immediate neighbours of each other. W sits second to the left of U. N does not face the immediate neighbour of X. Question Which of the following statement is false?

Answer : L sits immediate right of N

Q. Common content Read the passage and answer the questions that follow: Once upon a time, there lived a farmer who had a little land. His name was Tuan and he was a very kind and good-natured person. He lived in a hut on his land with his wife and children and earned by selling whatever crops he could produce on his small land. Tuan loved to help others. Whenever someone fell ill or needed something badly, Tuan was there to help that person. If someone died in the village, Tuan assisted the family members of the deceased person in whichever way he could. If anyone fell ill at night, Tuan was right beside the village doctor to help him prepare the medicines and tend to the sick. There seemed to be none who hated this man. He appeared to be loved by one and all. But there was one person who hated Tuan with all his heart. He was Juan, a neighbour of Tuan, who lived in the land next to him. A lazy person by nature, Juan hardly put in as much effort to cultivate his land as Tuan did to produce crops in his own. So when the harvest season arrived every year, Juan found that he had very few crops to sell. Tuan on the other hand, earned a handsome profit through the selling of his produces. One year, Juan could no longer contain his jealousy. Just days before Tuan was to reap his harvest, Juan set fire to his crops at night. Tuan was asleep at this time and it was only the alertness of one of his other neighbors that saved much of his crops from being perished in the deadly flames of the fire that Juan had lighted. When the flames were doused, Tuan saw which direction the fire had started from. Juan's animosity towards him

was unknown to Tuan. But he let the matters rest and decided to take action only if he saw Juan repeating his dastardly act once again. That year, Tuan managed to sell the rest of his crops at a good price but he could not make much profit for a good part of his produces had been burnt. He had a heavy heart but he did not like to tell anyone about it. Only days later, Tuan was awakened by the sound of lamentations. He went out to find a crowd beside Juan's hut. He rushed to find that Juan's son had fallen ill. He found that the village doctor was unable to provide a cure to his illness. Tuan knew what he had to do. He untied his own horse and rode it. Then he rushed to the town that was ten miles away and fetched a more experienced doctor who lived there. This doctor was able to guess the disease correctly and provided an exact cure for it. Within hours, the boy was found to sleep soundly and Tuan went with the doctor to take him back to the town. A day later, Juan went to Tuan's hut and began to weep bitterly. He confessed to his sins but was surprised when Tuan told him that he knew about it all. "You knew that I had set fire to your crops? And still you fetched the doctor for my son?" asked the astonished Juan. Tuan nodded and said, "I did what I knew was right. Could I do wrong just because you had done so?" Juan stood up and embraced Tuan. Both men were in tears and so were the others who stood by them. From that day, Juan changed himself. Within a year, he could produce much crops in his land through his hard work. When the others asked him how he had changed so much, he only replied, "It was the goodness and love of Tuan that transformed me." Question Why did Juan hate Tuan with all his heart?

Answer : Juan was jealous of Tuan's harvest which earned him huge profits.

Q. Answer the question given below each paragraph. In 1930, there were, on an average, 10 deaths at birth (infant mortality) per 10,000 population. By 1940, there were 8.5, and by 1950, 7.0. Today there are 5.5 deaths at birth per 10,000 population, and it is anticipated that the downward trend will continue. Each of the following, if true, would help to account for this trend except.

Answer : More effective birth control methods have been implemented.

Q. Getting an Aadhaar card was never this easy. There is a system in place even for the newborns to get enrolled for Aadhaar validation in twin cities. But, it is a different story when it comes to get the names of the dead out off the Aadhaar database. Confusion prevails at all levels, from government officials to the average citizen, on how to validate the Aadhar details of a person who is no more, which many want to do, to prevent identity misuse. But, it has been a different story when it comes to get the names of dead out of the Aadhaar database.

Answer : But, it is a different story when it comes to getting the names of dead out of the Aadhaar database.

Q. If $+$ means $-$, $-$ means \times , \times means \div , and \div means $+$, then what will be the value of following expression? $15 - 2 \div 90 \times 9 + 10$

Answer : 30

Q. P) As Delhi heads for a caseload of half a lakh and 80 percent of ICU beds are filled, the health crisis is being intensified with nurses in the capital's private hospitals reportedly resigning or refusing to work. **Q)** However, the plight of nurses, who have been working at

the front in the battle against COVID-19, must be appreciated. R) Their complaints are well-known, have been repeatedly articulated and remain largely ignored. S) In some cases, nursing home owners are doubling up as janitors, while others are going to the police to complain that nurses are abandoning patients.

Answer : PSQR

Q. ABCD and EFGA are the squares of side 4 cm ,each .In square ABCD,DMB and PMQ are the arcs of circles with centres at A and C respectively. In square AEFG,the shaded region is enclosed by two arcs of circles with centres at A and F, respectively. What is the ratio of the shaded regions of the squares ABCD and AEFG respectively? CORRECT 4/3 None of these
Status: Not Viewed Mark obtained: 0/1 Hints used: 0 Level:

Answer :

Q. In a race, the odds in favour of cars P, Q, R, S are 1 : 3, 1 : 4, 1 : 5 and 1 : 6 respectively. Find the probability that one of them wins the race.

Answer : 319/420

Q. Study the flow chart give below and the questions that follow

Answer : none of these

Q. Statements: Some format is cute. Only a few cute is perfect. No stuff is perfect. Conclusions: I. Some stuff is format. II. Some format is perfect.

Answer : If neither conclusion I nor II follows.

Q. Common content Analyse the passage given and provide and appropriate answer for questions. Every conscious mental state has a qualitative character that we refer to as mood. We are always in a mood that is pleasurable or un-pleasurable to some degree. It may be that bad moods relate to their being too positive reinforcement in a person's current life and too many punishments. In any case, moods are distinguished from emotions proper by not being tied to any specific object. But, this distinction is now watertight, in that emotions need not be directed at objects that are completely specific (we can be angry just at people generally) while there is always a sense of a mood having general objective like the state of the world at large. Moods can also relate to emotions proper, as in the aftermath of an emotional incident such as the failure to secure a loan. A mood on this basis is the mind's judgement on the recent past. For Goldie, emotion can bubble up and down within a mood, while an emotion can involve characteristics that are non-object specific. What is important for marketing is that moods colour outlook and bias judgements. Hence the importance of consumer confidence surveys, as consumer confidence typically reflects national mood. There is mood-congruence when thoughts and action fall in line with mood. As Goleman says, there is a "constant stream of feeling" that runs "in perfect to our steam of thought". Mood congruence occurs because a positive mood evokes pleasant associations that lighten sub sequent appraisals (thoughts) and actions, while a negative arouses pessimistic associations that influence future judgement

and behaviour. When consumers are in a good mood, they are more optimistic about buying, more confident in buying, and much more willing to tolerate things like waiting in line. On the other hand, being in a mood makes buying behaviour in the “right mood” by the use of music and friendly staff or, say, opens bakeries in shopping malls that delight the passer-by with the smell of fresh bread. Thayer views moods as a mixture of biological and psychological influences and, as such, a sort of clinical thermometer, reflecting all the internal and external events that influence us. For Thayer, the key components of mood are energy and tension in different combinations. A specific mixture of energy and tension, together with the thoughts they influence, produces moods. He discusses four mood states. Calm-energy: he regards this as the optimal mood of feeling good. Calm-tiredness: he regards this as feeling a little tired without any stress, which can be pleasant. Tense-energy: involves a low level of anxiety suited to a fight or flight disposition. Tense-tiredness: is a mixture of fatigue and anxiety, which underlies the unpleasant feeling of depression. People generally “feel down” or “feel good” as a result of happenings in the world around them. This represents the national mood. People feel elated when the national soccer team wins an international match or depressed when their team has lost. An elated mood of calm- energy is an optimistic mood, which is good for business. Consumers, as socially involved individuals, are deeply influenced by the prevailing social climate. Marketers recognize the phenomenon and talk about the national mood being, say for or against conspicuous consumption. Moods do change, though. Writing early in the nineteenth century, Toqueville describes an American elite embarrassed by the ostentation of material display; in the “Glided Age”, sixty years later, many were only too eager to embrace a materialistic vulgarity. The problem lies in anticipating changes in national mood, since the change in the mood affects everything from buying of houses and washing machines. Thayer would argue that we should be interested in national events that are likely to produce a move towards a tense-tiredness state or toward a calm energy state, since these are the polar extremes and are more likely to influence behaviour. Artists sensitive to national moods express the long-term emotional journey from Charles Dickens’s depiction of the death of little Nell to Oscar Wilde’s cruel flippancy about it. “One would have to have a heart of stone not to laugh at the death of little Nell”, which reflects the mood change from high Victorian sentimentality to the acerbic cynicism of the end of the century, as shown in writers like Thomas Hardy and artists like Aubrey Beardsley. Whenever the mind is not fully absorbed, consciousness is no longer focused and ordered. Under such conditions the mind falls into dwelling on the unpleasant, with the negative mood developing. Csikszentmihalyi argues that human needs to keep consciousness fully active is what influences a good deal of consumer behaviour. Sometimes it does not matter what we are shopping for-the point is to shop for anything, regardless, as consuming is one way to respond to the void in consciousness when there is nothing else to do. Question Which statements from the ones given below are correct? I. In general, emotions are object specific II. In general, moods are not object specific III. Moods and emotions are same IV. As per Thayer, moods are a mix of biological and psychological influences

Answer : I, II, IV

Q. These questions are based on the data given below. There are four executives A, B, C and D each working in a different organization amongst Microsoft, Oracle, Infosys and IBM, not necessarily in the same order. Each of them gives three replies to any question asked, which are alternately true or false, in any order. When asked to mention the name of the executive and the organization that he works for, they gave the following replies: A: C works with Microsoft. D works with IBM. B works with Infosys. B: A works with IBM. C works with Infosys. D works with Oracle. C: D works with Microsoft. B works with Oracle. A works with Infosys. D: B is not working with Infosys. A is working with IBM. C is not working with Microsoft. A definite arrangement can be obtained from the above information. Solve

the questions based on the above data. Which of the following statements must be false?

Answer : The second statements made by A, B and C are false.

Q. If the length of a certain rectangle decreased by 4 cm and the width increased by 3 cm, a square with the same area as the original rectangle would result. The perimeter of the original rectangle (in centimetres) is

Answer : 50

Q. Consider the following statements: Albert: Dave did it. Dave : Tony did it. Gul: I did not do it. Tony: Dave lied when he said that I did it. If only one out of all above statements is true, who did it?

Answer : Gul

Q. Since the government came to power, one of the primary items on its agenda has been the transformation of India into a digitally empowered economy. To further this cause, a proposal to incentivise cashless transactions by offering a concession in tax rate was tabled before the goods and services tax (GST) council. The proposed scheme seeks to offer a 2% rate cut on business to consumer (B2C) transactions where payments are made digitally or by cheque. Which of the following statements, if true, weaken the efficacy of the mechanism stated above to incentivize cashless transactions? I. The maximum amount of concession available will be capped at only Rs 50 per transaction. II. Introducing the incentive will subject businesses to additional reporting requirements as they will have to offer customers two prices—one with a reduced rate and one with the regular rate. III. The diverse nature of our economy and the demands of India's federal structure justified the initial need for multiple rates.

Answer : Only I and II

Q. Common content Select the correct alternative from the given choices. Question What is the minimum number of cuts required to cut a cube into 24 identical pieces?

Answer : 6

Q. Select the word which is closest in meaning to the given word. Dissipate

Answer : Disperse

Q. A merchant marks his goods in such a way that the profit on sale of 50 articles is equal to the selling price of 25 articles. What is his profit margin?

Answer : 100%

Q. Ram and Shyam are 10 km apart. They both see a hot air balloon passing in the sky making an angle of 60° and 30° respectively. What is the height at which the balloon could be flying?

Answer : Both A and B

Q. At a club 30% of members use both pool and sauna, 40% of members who use pool do not use sauna. What percentage of the members use the pool? 33

Answer : 50%

Q. A starts from a point and walks 5 kms north, then turns left and walks 3 kms. Then again turns left and walks 5 kms. Point out the direction in which he is going now.

Answer : South

Q. In each question given below is given a statement followed by two conclusions numbered I and II. You have to assume everything in the statement to be true, then consider the two conclusions together and decide which of them logically follows beyond a reasonable doubt from the information given in the statement Statements: Some dogs are rats. Some rats are horses. Conclusions: I. Some horses are dogs. II. No horse is a rat. If only the conclusions I is true.

Answer : When neither the conclusion I nor the II is true.