

100 questions
Time: 120 mins
+1 for correct
-0.25 for incorrect

Section 1 VERBAL

Each question below gives you a related pair of words or phrases. Select the lettered pair that best expresses a relationship similar to that in the original pair of words.

1 SECRET : CLANDESTINE

- a. Overt:furtive b. Covert : Stealthy
 c. Open : Closed d. News : Rumour

2 DOUBT : AUDIENCE

- a. Atheist : Religious b. Sceptic : Pious
 c. Iconoclast : Idol d. Apostate : state

3 SORROW : DEATH

- a. Laugh : Cry b. Happiness : Birth
 c. Fear : Hate d. Confusion : anger

4 PEEL : PEAL

- a. Coat : Rind b. Rain : Reign
 c. Laugh : Bell d. Brain : Cranium

5 SIP : GILP

- a. Soup : Water b. Tent : Hut
 c. Touch : Push d. Cup : Glass

Each word in CAPITAL LETTERS is Followed by four words or phrases. The correct choice is the word of phrase whose meaning is most nearly opposite to the meaning of the word in capitals

6 SUMPTUOUS

- a. Irritable b. Meagre c. Fancy d. Sad

7 TRAIT

- a. Symbol b. Habit c. Identity d. Uncharacteristic

8 FRAIL

- a. Worried b. Strong c. Nervous d. Wily

9 HINDER

- a. Expedite b. Protect c. Devote d. Create

10 ORIGIN

- a. Ointment b. Detergent c. Remnant d. Comfort

Each blank in the following sentences indicates that something has been omitted. Considering the words beneath the sentence, choose the word or set of words that best fits the whole sentence

11 If negotiations are to prove fruitful, there must not only be sincerity on each side, but there must also be in the sincerity of the other side.

- a. Faith b. Belief c. Substance d. Certainty

12 The non cooperative attitude of the members can only the image of the society.

- a. Spoil b. Improve c. Degrade d. Defame

13 This, partly, explains how the Mehta family has been able to its lavish lifestyle in recent times, despite the fact that all its assets have been

- a. Keep, removed b. Afford, attached
 c. Develop, liquidated d. Keep up, destroyed

14 One major between the Election Commission and the Union Government related to the powers of the former in respect of the deployment of central police forces at places where are elections is held.

- a. Irritant b. Conflict c. Pain d. Culprit

15 He knew everything better than anybody else, and it was an affront to his vanity that you should disagree with him.

- a. Overstrung b. Overweening c. Overwhelming
 d. Overwrought

In the following questions four alternatives are given for the idiom/phrase italicised and underlined in the sentence. Choose the alternative which best expresses the meaning of idiom/phrase.

16 He believes in the policy of making hay while the sun shines.

- a. Giving bribes to get his work done
 b. seeking advice from one and all
 c. helping those who help him
 d. making the best use of a favourable situation

17 It is high time that India did something about the population problem.

- a. Already late b. Appropriate time c. Desired occasion
 d. Auspicious moment

18 He is always standing up for the weak and oppressed.

- a. Boosting the claims of b. Championing the cause of
 c. Seeking of others for d. Moving about with

19 The old man was cut to the quick when his rich son refused to recognise him.

- a. Surprised b. Hurt intensely c. Annoyed d. Irritated

20 The dacoit murdered the man in cold blood.

- a. Coldly b. Boldly c. Ruthlessly d. Deliberately

Rearrange the following five sentences in proper sequence so as to for a meaningful paragraph, then answer the questions given below them.

1. After Examining him, the doctor smiled at him mischievously and took out a syringe.
2. Thinking that he was really sick, his father summoned the family doctor.
3. That day, Mintu wanted to take a day off from school
4. Immediately, Mintu jumped up from his bed and swore the he was fine
5. Therefor; he pretended to be sick and remained in bed.

21 Which sentence should come third in the paragraph?
a. 1 b. 2 c. 3 d. 4

22 Which sentence should come last in the paragraph?
a. 1 b. 2 c. 3 d. 4

23 Which sentence should come fourth in the paragraph?
a. 1 b. 2 c. 5 d. 4

24 Which sentence should come second in the paragraph?
a. 2 b. 5 c. 4 d. 3

25 Which sentence should come first in the paragraph?
a. 2 b. 1 c. 4 d. 3

Logic

Q1. Neelima walks 10 km towards the South. Turning to the left, she walks 20km and then moves to her right. After moving a distance of 20km, she turns to the right and walks 20 km. Finally, she turns to the right and moves a distance of 10km. How far and in which direction is she from the starting point?
(a) 10 km North (b) 20 km South (c) 20 km North (d) 10m South

Q2. A certain amount was distributed among six persons— A, B, C, D, E and F. B received more than only A. F received more than B. F received less than C. E received more than C but he did not get the highest amount. Who among the following received less amount than C?
(a) A, F (b) A, B (c) B, F (d) A, B, F

Q.3) Look at this series IV, VII, XI, XVI, , XXIX, What number should fill the blank?
(a)IX (b)XXII (c)XV (d)XXIII

Q.4) Look at this series: 35, 32, 30, 27, 25, _ ... What number should come next?
(a)22 (b)21 (c)23 (d)20

Q.5) Choose the missing term out of the given alternatives J2Z,K4X,I7V,?,H16R,M22P
(a)I11T (b)L11S (c)L12T (d)G11T

Q.6-10)Directions: The passage given below is followed by four alternative summaries. Choose the option that best captures the essence of the passage. Key in the number of the option you choose as your answer.

Q6.)Many addictions aim to increase arousal. This is the all-powerful feeling that might come from cocaine, amphetamines, the first few drinks of alcohol, shoplifting, sexual acting out, videogames, or gambling. This omnipotent feeling, however, is eventually undermined when the addict realizes that a dependency has been formed. A feeling of fear replaces the feeling of being all powerful – fear of losing the source of addiction and fear that others will find out how powerless the person actually

is. Negative experiences always accompany the positive feelings the addict is seeking.
A. An addict's intention is only stimulation and not dependency.
B. The falseness in the potency of some substances and activities reflects on an addict.
C. An addict's dependency is derived from his misunderstanding of the hidden potential of an addictive substance.
D. The potentate is eventually enfeebled by indulgence in addictive substances or Activities.

Q.7)It's a good thing that almost all of us worry. Think of worry as a built-in alarm device. When it is used wisely, it alerts us to danger and prompts us to navigate our way through a maze of solutions to life's various problems. We need to think through our options when we are faced with problems, weighing the benefits and pitfalls of each alternative, and then come up with the best solution. From there we take action which, we hope, solves the problem. Worry is helpful when it is used at the right time and at the right level for resolving our difficulties. Like many things in life, however, too little worry, or too much of it, can be harmful.
A. Excess worry is as harmful to man as any other thing in life.
B. A beacon that timely alerts and directs one's path towards right action is worry.
C. Problems in life always get exaggerated by worrywarts.
D. Optimal worry helps generate optimal solutions to life's problems.

Q.8)As far as superior knowledge and talent confer on their possessor a natural charter of privilege to control his associates and exert an influence on the direction of the general affairs of the community, the free and natural action of that privilege is best secured by a perfectly free democratic system, which will abolish all artificial distinctions, and, preventing the accumulation of any social obstacles to advancement, will permit the free development of every germ of talent, wherever it may chance to exist.
A. Superior knowledge engenders their possessors superior authority and control over others.
B. Obstacles of an undemocratic society suppress talent and breed systems of knowledge that are inferior and conservative.
C. Society can only advance when liberties are unbridled and privileges unencumbered as in a democracy.
D. Superior abilities anywhere manifest themselves organically in an uninhibited environment.

Q.9)Yes, but someone will say to me that this design of making use of oneself as a subject to write about would be excusable in great and famous men, who by their reputation had aroused some desire to know them. That is certain, I confess it, and know very well that an artisan will scarcely lift his eyes from his work to see a man of the common sort, whereas men forsake workshops and stores to see a great and prominent person arrive in a

city. It will become any other to make himself known except him who has qualities worthy of imitation and whose life and opinions may serve as a model.

- A. People tend to emulate famous men and thus are eager to read about them.
 B. Great and famous men inspire others through their writings.
 C. A man of ordinary bearings holds little privilege to publicity.
 D All famous men have a social obligation to share their life stories.

Q10)Statement:

"Anti Virus Level Web Protection, the most reliable protection against malicious sites" – An advertisement on the internet

Assumptions:

- I. There are malicious websites on the internet.
 II. One needs protection against malicious websites.
 III. This product provides the best possible protection against malicious sites on the web.
 (a) Only I is implicit.
 (b) Only III is implicit.
 (c) None is implicit.
 (d) Only I and II are implicit.

Q.11) Window is to pane as book is to
 A.novel B.glass C.cover D.page

Q.12)Yard is to inch as quart is to
 A.gallon B.ounce C.milk D.liquid

Q.13)Cup is to coffee as bowl is to
 A.dish B.spoon C.soup D.food

Q.14) Odometer is to mileage as compass is to
 A.speed B.hiking C.needle D.direction

Q.15)Marathon is to race as hibernation is to
 A.winter B.beer C.dream D.sleep

Q.16)Which word does NOT belong with the others?
 A.steering wheel B.tyre C.car D.engine

Q.17)Which word does NOT belong with the others?
 A.inch B.ounce C.centimeter D.yard

Q18)Which word does NOT belong with the others?
 A.mayonnaise B.parsley C.basil D.dill

Q19)Which word does NOT belong with the others?
 A.Couch B.rug C.table D.chair

Q20)Which word does NOT belong with the others?
 A.leopard B.cougar C.elephant D.lion

Q21)Find the word that names a necessary part of the underlined word. OVATION
 A.outburst B.bravo C.applause D.encore

Q22)Find the word that names a necessary part of the underlined word.- ANTIQUE

A.aged B.prehistoric C.rarity D.artifact

Q23)Find the word that names a necessary part of the underlined word. - vertebrate
 A.backbone B.reptile C.mammal D.animal

Q.24) Find the word that names a necessary part of the underlined word. - itinerary
 A.map B.route C.travel D.guidebook

Q25) Find the word that names a necessary part of the underlined word. - sustenance
 A.water B.nourishment C.grains D.menu

Quantitative Ability

Solve the problem and indicate the best of the answer choices given. All numbers used are real numbers.

1 Wheat is now being sold at Rs. 27 per kg. During last month its cost was Rs. 24 per kg. Find by how much per cent a family reduces its consumption so as to keep the expenditure fixed.
 a. 10.2% b. 12.1% c. 12.5% d. 11.11%

2 In 4 years, Rs.6000 amounts to Rs.8000. In what time at the same rate will Rs.525 amount to Rs.700?
 a. 2 years b. 3 years c. 4 years d. 5 years

3 Ajit can complete a piece of work in 60 days, whereas Kailash and Shailendra working together can complete it in 15 days. When Ajit and Shailendra alternately work for a day each, the work gets completed in 40 days. The number of days in which Kailash will complete twice the work is
 a. 30 b. 40 c. 52 d. 60

4 A rectangular piece of wood of dimensions 6 cm by 12 cm by 15 cm is split up into an accurate number of equivalent cubes. What is the least possible number of cubes?
 a. 10 b. 40 c. 45 d. 20

5 Mr.Prabhu invests a certain sum of money in a scheme for two years. He receives a compound interest of Rs. 756 and simple interest of Rs. 720. What will be the rate of interest if the sum is invested in such a way that the simple interest becomes Rs. 900 and the total number of years becomes equal to rate percent per annum?
 a. 4% b. 5% c. 6% d. 9%

6Two fair dice are thrown. What is the probability that the number of dots on the first dice exceeds 3 and that that on the second exceeds 4 ?
 a. 5/6 b. 5/36 c. 20/36 d. 1/9

7 A train of length 110 meter is running at a speed of 60 kmph. In what time, it will pass a man who is running at 6 kmph in the direction opposite to that in which the train is going?
 a. 10 b. 8 c. 6 d. 4

8 In how many ways, the letters of word ASSASSINATION can be arranged so that the words always start with A and end with N.
a. 58200 b. 49200 c. 63900 d. 69300

9 A bakery opened yesterday with its daily supply of 40 dozen rolls. Half of the rolls were sold by noon, and 80 percent of the remaining rolls were sold between noon and closing time. How many dozen rolls had not been sold when the bakery closed yesterday?
a. 2 b. 3 c. 1 d. 4

10 Find the ratio of male candidates to that of the female candidates of city B in 2005.
a. 8:11 b. 7:9 c. 9:10 d. 10:9

11.

Find the indicated limit: $\lim_{x \rightarrow 1} \frac{x^2 + 2x + 5}{x^2 + 1}$

a. 0 b. 2 c. 3 d. 4

12 If $k + 2$, $4k - 6$ and $3k - 2$ are three consecutive terms of an AP, then the value of k is.
a. 0 b. 2 c. 3 d. 4

13 8 children and 12 men complete a certain piece of work in 9 days. If each child takes twice the time taken by a man to finish the work, in how many days will 12 men finish the same work ?
a. 8 b. 15 c. 12 d. 14

14 On my sister's 15th birthday, she was 159 cm in height, having grown 6% since the year before. How tall was she the previous year ?
a. 156 b. 155 c. 150 d. 172

15 If selling price is doubled, the profit triples. Find the profit percent?
a. 100% b. 116.67% c. 200% d. 300%

16 Two dice are thrown simultaneously. What is the probability of getting two numbers whose product is even?
a. $\frac{3}{16}$ b. $\frac{1}{8}$ c. $\frac{3}{4}$ d. $\frac{1}{2}$

17 Pipe A and B running together can fill a cistern in 6 minutes. If B takes 5 minutes more than A to fill the cistern then the times in which A and B will fill the cistern separately will be, respectively:
a. 15min,20min b. 15min,10min c. 10min,15min d. 25min,20min

18 A man travelled a distance of 90Km in 9 hours partly on foot at 8 kmph and partly on bicycle at 17 kmph. Find the distance travelled on foot.
a. 46 b. 56 c. 62 d. 52

19 For which the following values of n is $(100+n)/n$ NOT an integer?
a. 1 b. 2 c. 3 d. 5

20 Find the probability that a leap year selected at random contains either 53 Sundays or 53 Mondays.
a. $\frac{2}{7}$ b. $\frac{3}{7}$ c. $\frac{4}{7}$ d. $\frac{1}{7}$

21 The sum of prime numbers that are greater 60 but Less than 70 is
a. 67 b. 128 c. 197 d. 260

22 if a 10 percent deposit that has been paid towards the purchase of a certain product is Rs 220, how much more remains to be paid?
a. 198 b. 1980 c. 980 d. 1080

23 Each question below gives you a related pair of worth or phrases. Select the lettered pair that best expresses a relationship similar to that in the original pair of words.
a. 8:7 b. 7:8 c. 9:11 d. 8:13

$$\left(\frac{1}{\log_3 60} + \frac{1}{\log_4 60} + \frac{1}{\log_5 60} \right)$$

24. The value of
a. 1 b. 2 c. 3 d. 4

25 A car dealer sold x used cars and y new cars during May. If the number of used cars sold was 10 times greater than the number of new cars sold, which of following expresses this relationship?
a. $X > 10Y$ b. $X = Y + 10$ c. $X = Y - 10$ d. $X > Y + 10$

GK

Q1. e-SOT and e-PRAN card launched for Atal Pension Yojana subscribers, recently. What is the full form of PRAN?
(a) Permanent Retaliated Account Number (b) Permanent Retirement Account Number (c) Provident Retirement Account Number (d) Protection Retirement Account Number

Q2. Name the private sector Bank that has won the prestigious 'Golden Peacock Innovative Product/Service Award 2017' (in Financial sector Banking).
(a) ICICI Bank (b) HDFC Bank (c) DENA Bank (d) Yes Bank

Q3. The All India Institute of Medical Sciences (AIIMS) has recently become India's first public hospital to start plaque brachytherapy facility for the treatment of ____ tumors.
(a) Brain (b) Stomach (c) Intestine (d) Eye

Q4. ESAF Small Finance Bank has recently launched a social deposit scheme called 'Hrudaya Deposit scheme' in _____.
(a) Thiruvananthapuram (b) Bengaluru (c) Thrissur (d) Mangalore

Q5. The govt. will sell its entire 51% stake and transfer the management control of the helicopter service operator Pawan Hans. It is a joint venture where _____ holds 49%.

(a) ONGC (b) Air India (c) LIC of India (d) Indian Oil
Q6. Which state is known as the 'Spice Garden of India'? (a) Kerala (b) Karnataka (c) Andhra Pradesh (d) Tamil Nadu

Q7. Which city in Uttar Pradesh is famous for Glass Bangles industry?
(a) Agra (b) Firozabad (c) Moradabad (d) Aligarh

Q8. In terms of area, which is the smallest continent?
(a) Europe (b) Australia (c) South America (d) Antarctica

Q9. India was one of the first in Asia to recognize the effectiveness of the EPZ model in promoting exports. EPZ stands for-
(a) Export Point Zone (b) External Processing Zone (c) Export Production Zone (d) Export Processing Zone

Q10. The Prime Minister along with Sri Lankan President Maithripala Sirisena have released _____ at Ninora village in Ujjain
A. Aimhashta Declaration B. Timhashta Declaration
C. Simhashta Declaration D. Himhashta Declaration

Q11. Who among the following is the first woman appointed as the superintendent of a men's prison in high-security Tihar jail?
A. Anju Mangla B. Kiran Bedi C. Archana Ramasundaram
D. Vimla Mehra

Q12. Who is the author of the book 'The Ground Beneath Her Feet'?
A. Chetan Bhagat B. Kiran Desai C. Salman Rushdie D. Amitav Ghosh

Q13. The Indian Coast Guard Raising Day is celebrated on _____
A. 7th February B. 1st February C. 21st February D. 11th February

Q14. 'Life is One Incredible Journey', is the punch line of _____
A. Club Mahindra Holidays B. Thomas Cook C. Nature D. Outlook Traveler

Q15. In March 2017, Trivendra Singh Rawat was sworn in as the _____ Chief Minister of Uttarakhand.
A. ninth B. eighth C. sixth D. fifth

Q16. According to the World Happiness Report 2017, which of the following countries is the world's happiest country?
A. Norway B. Denmark C. Switzerland D. Iceland

Q17. The first-ever Haryana Sahitya Sangam was started in _____
A. Faridabad B. Panchkula C. Panipat D. Sonapat

Q18. To which class does Indian Navy's indigenously designed guided missile destroyer "INS Chennai" (P15A Guided Missile Destroyer) belong?
A. Talwar class B. Shivalik class C. Rajput class D. Kolkata class

Q19. Which country abolished a visa programme known as '457 visa'?
A. Australia B. Singapore C. Saudi Arabia D. New Zealand
Q20. The Constitution of India is declared to have been adopted and enacted by the _____
A. Constituent Assembly B. Indian Parliament C. Union Cabinet D. None of these

Q21. Who among the following was the Constitutional Adviser to the Constituent Assembly?
A. Sachchidanand Sinha B. N. Gopaldaswamy C. B. N. Rao D. H. N. Kunzru

Q22. Who was elected as the President of industry body FICCI (Federation of Indian Chambers of Commerce and Industry) for 2017?
A. Pankaj Patel B. Harshavardhan Neotia C. Mukesh Ambani D. Azim Premji

Q23. What is the theme of 2017 International Day for the Elimination of Violence against Women?
A. No New Nirbhaya: End to Violence Against Women
B. Leave no one behind: end violence against women and girls
C. Stop it while you still have a voice
D. Don't believe when they say they will change!

Q24. What is the full name of the music company HMV?
A. Hindustan Music Vehicle B. His Masters Voice
C. Hindi Music Vishisth D. Herman Music Vocals

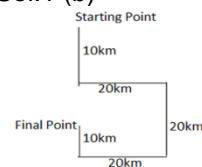
Q25. What is the full name of the IT company Wipro?
A. Wazim Iashim Premji Resources Organisation
B. Wipro India Private Reserved Organisation
C. Western India Palm Refined Oils
D. West IT Power Reserved Organisation

Verbal Solutions

1. B 2. B 3. C 4. C 5. A
6. B 7. D 8. B 9. A 10. C
11. A 12. A 13. C 14. B 15. A
16. D 17. A 18. B 19. B 20. C
21. B 22. D 23. A 24. B 25. D

Logic solutions

Sol.1 (b)



Soln 2. (d) $D > E > C > F > B > A$

Soln 3. (b) XXII

Soln 4.(a) 22

Soln 5. (d) G11T

The first letters in odd numbered terms form series J, I, H and in even numbered terms form the series K, L, M. The sequence followed by the numbers is +2, +3, +4, +5, +6. The third letter of each term is moved two steps backward to obtain the third letter of the next term.

Soln 6 (b). 1. Neither stimulation nor dependency is the intention; it is the sense of feeling all-powerful. This power may come through stimulation or arousal. The last sentence makes it clear that an addict seeks positive feelings, i.e. power.

2. True. An addict eventually comes to realize the falseness in the induced power by anything that stimulates. This eventually takes a toll on the addict, as the addict becomes fearful.
3. The author does not talk about the hidden potential of addictive substances.
4. It is not correct to say that a powerful person gets weakened by indulging in addictive substances. Instead, a person thinks that he has become powerful by indulging in addictive substances.

Soln 7.(b) 1. True. Excess worry can be harmful. However, this is not the message of the author.

2. True. This is what worry does. It helps alerting at the right time and directing one's path to right solution.
3. Not correct. The author does not talk about worrywarts here.
4. True. Optimal worry helps generate optimal solutions. However, the role that worry plays is not clear in this option.

Soln 8.(d) 1. Not true. This has not be said in the paragraph.

2. Not true. Obstacles need to be removed. It cannot be deduced that these make society conservative. Also, the message in the paragraph is that free talent naturally grows and flourishes in a free society.
3. Not true. Liberties cannot be said to be unbridled in a democracy.
4. True. Superior knowledge or talent or abilities flourish organically or naturally in a free environment.

Soln 9 (c) 1. True, however, this does not capture the essence of the paragraph.

2. True, however, the passage is a comparison between the famous and the commoner, so it does not capture the essence.
3. True. The paragraph says that it does not befit a commoner to make himself a subject of writing as there is nothing of interest in him worth imitating or reading about.
4. Not true. Nowhere in the passage has it been indicated that famous men have a social obligation or any duty towards fellow men. On the contrary, they are just excusable for having made their lives public through their writings and inviting its attention.

Soln 10.(d) Only I and II are implicit

Soln 11 (d) A window is made up of panes, and a book is made up of pages. The answer is not (choice a) because a novel is a type of book. The answer is not (choice b) because glass has no relationship to a book. (Choice c) is incorrect because a cover is only one part of a book; a book is not made up of covers

Soln 12(b) A yard is a larger measure than an inch (a yard contains 36 inches). A quart is a larger measure than an ounce (a quart contains 32 ounces). Gallon (choice a) is incorrect because it is larger than a quart. Choices c and d are incorrect because they are not units of measurement.

Soln 13(c) Coffee goes into a cup and soup goes into a bowl. Choices a and c are incorrect because they are other utensils. The answer is not choice d because the word food is too general.

Soln 14 (d) An odometer is an instrument used to measure mileage. A compass is an instrument used to determine direction. Choices a, b, and c are incorrect because none is an instrument.

Soln 15 (d) A marathon is a long race and hibernation is a lengthy period of sleep. The answer is not choice a or b because even though a bear and winter are related to hibernation, neither completes the analogy. (Choice c) is incorrect because sleep and dream are not synonymous.

Soln 16(c) Tyre, steering wheel, and engine are all parts of a car.

Soln 17(b) An ounce measures weight; the other choices measure length.

Soln 18 (a) Parsley, basil and dill are types of herbs. Mayonnaise is not a herb

Soln 19 (b) The couch, table, and chair are pieces of furniture; the rug is not.

Soln 20(c) A leopard, cougar, and lion all belong to the cat family; an elephant does not.

Soln 21(c) An ovation is prolonged, enthusiastic applause, so applause is necessary to an ovation. An outburst (choice a) may take place during an ovation; "bravo" (choice b) may or may not be uttered; and an encore (choice d) would take place after an ovation.

Soln 22 (a) An antique is something that belongs to, or was made in, an earlier period. It may or may not be a rarity (choice a), and it does not have to be an artifact, an object produced or shaped by human craft (choice b). An antique is old but does not have to be prehistoric (choice d).

Soln 23 (a) All vertebrates have a backbone. Reptiles (choice b) are vertebrates, but so are many other

animals. Mammals (choice c) are vertebrates, but so are birds and reptiles. All vertebrates (choice d) are animals, but not all animals are vertebrates.

Soln 24(b) An itinerary is a proposed route of a journey. A map (choice a) is not necessary to have a planned route. Travel (choice c) is usually the outcome of an itinerary, but not always. A guidebook (choice d) may be used to plan the journey but is not essential.

Soln 25(b) Sustenance is something, especially food, that sustains life or health, so nourishment is the essential element. Water and grains (choices b and c) are components of nourishment, but other things can be taken in as well. A menu (choice d) may present a list of foods, but it is not essential to sustenance.

GK Solutions

Solution 1. B 2. D 3. D 4. C 5. A 6. A 7. B
8. B 9. D 10. C 11. A 12. C 13. B 14. D 15. B 16. A 17. B
18. D 19. A 20. C 21. C 22. A 23. B 24. B 25.

Quant Solutions

1. D
Old price of rice = Rs.24/kg

New price of rice = Rs.27 per/kg

Therefore, Increase in price of rice = New price - Old price = 27 - 24 = Rs.3/kg

Therefore, Increased percentage in price

$$= \frac{324 \times 100}{1212324} \times 100 = 1212\%$$

Now, reduction in consumption, so as to keep the expenditure fixed.

According to the formula,

$$(a100+ax100)(a100+ax100)$$

$$(125100+125) \times 100 (125100+125) \times 100\% = 11.1\%$$

2. C
Interest = 700-525= 175
P=525
I=175
r=8.33%
175= 525*N*8.33/100
N= 175*100/525*8.33
N=4 years

3. D
1/A = 1/60
(1/K + 1/S) = 1/15
(1/A + 1/S) = 1/20

Solving the three equations, we get

1/K = 1/30 or Kailash completes the work in 30 days.
So, he will take 60 days to complete twice the work.

4. B
Volume of the block = (6 x 12 x 15) cu.cm = 1080 cu.cm
Side of the largest cube = H.C.F. of 6 cm, 12 cm, 15 cm
= 3 cm.

Volume of this cube = (3 x 3 x 3) cu.cm = 27 cu.cm
Number of cubes = 1080/27 = 40.

5. B
Compound interest for two years is Rs. 756.
Simple interest for two years is Rs. 720.
Therefore, interest for the first year is Rs. (756 - 720) = Rs. 36

This implies that rate of interest is 10% = $\left(\frac{36}{360} \times 100\right)$
So, $\frac{P \times 10 \times 1}{100} = 360$

P = 3600

The principal for the first year, P = Rs. 3600

Now,
 $\Rightarrow \frac{P \times k \times k}{100} = SI$
 $\Rightarrow \frac{3600 \times k^2}{100} = 900$
 $\Rightarrow k = 5$

6. C
total possible outcomes for two dice: 36

case 1
prob of getting an even number on the first die
first die can have 2,4,6 second die can have any of 1,2,3,4,5,6
or favorable outcomes 3x6 = 18
probability= 18/36

case 2
getting a sum of 8 (2,6)(6,2)(3,5)(5,3)(4,4)
probability=5/36

now both of the above cases have some cases common to them
i.e. when the first die has an even number and the sum is also 8
there are 3 cases of this kind (2,6) (6,2) (4,4)
prob=3/36

also P(A or B)=P(A) + P(B) - P(A & B)
so we have P(even or sum of 8) = 18/36 + 5/36 - 3/36
20/36

7. C

Distance = 110 m

Relative speed = $60 + 6 = 66$ kmph (Since both the train and the man are in moving in opposite direction)

$$= (66 \times 5/18) \text{ m/sec} = 55/3 \text{ m/sec}$$

8. D

$$\text{Required no. of ways} = 11! / (3! \times 4! \times 2 \times 2) = 69300$$

9. D

20 rolls were sold by noon and 80% of the remaining 20 rolls were sold between noon and closing time, thus only 20% of these remaining 20 rolls had not been sold when the bakery closed. Hence $0.2 \times 20 = 4$ rolls had not been sold when the bakery closed.

10. D

$$\text{Required ratio} = \frac{50/100 \times 150000}{45/100 \times 150000} = \frac{50}{45} = \frac{10}{9}$$

11.

$$\lim_{x \rightarrow 1} \frac{x^2 + 2x + 5}{x^2 + 1} = \frac{1 + 2 + 5}{1 + 1} \text{ by direct substitution}$$

$$= \frac{8}{2} = 4$$

12. C

If these form an AP then, $k -$

$$4k - 6 - k - 2 = 3k - 2 - 4k + 6$$

$$3k - 8 = -k + 4$$

$$3k + k = 4 + 8$$

$$4k = 12$$

$$k = 3$$

13. C.

8 Women will be equal to 4 Men.

Thus $12 + 4 = 16$ Men finish the work in 9 days .

Then 12 Men can complete the same in $(9 \times 16) / 12 = 12$ days

14. C.

Given that height on 15th birthday = 159 cm and growth = 6%

Let the previous year height = x

Then height on 15th birthday =

$$x \times (100 + 6) / 100 = x \times 106 / 100 \Rightarrow 159 = x \times 106 / 100 \Rightarrow x = 159 \times 100 / 106 = 1.5 \times 100 = 150 \text{ cm}$$

15. A

Explanation ; Let the C.P be Rs.100 and S.P be Rs. x ,

Then

The profit is $(x - 100)$

Now the S.P is doubled, then the new S.P is $2x$

New profit is $(2x - 100)$

Now as per the given condition;

$$\Rightarrow 3(x - 100) = 2x - 100$$

By solving, we get

$x = 200$

Then the Profit percent = $(200 - 100) / 100 = 100$

Hence the profit percentage is 100%

16. C

Explanation: In a simultaneous throw of two dice, we have $n(S) = (6 \times 6) = 36$.

Then, $E = \{(1, 2), (1, 4), (1, 6), (2, 1), (2, 2), (2, 3), (2, 4), (2, 5), (2, 6), (3, 2), (3, 4),$

$(3, 6), (4, 1), (4, 2), (4, 3), (4, 4), (4, 5), (4, 6), (5, 2), (5, 4), (5, 6), (6, 1),$

$(6, 2), (6, 3), (6, 4), (6, 5), (6, 6)\}$

$n(E) = 27$.

so probability = $27/36 = 3/4$

17. C

So let the pipe A fills the cistern in X min.

Therefore, pipe B will fill cistern in $(x + 5)$ min

Now, $1/x + 1/x + 5 = 1/6$

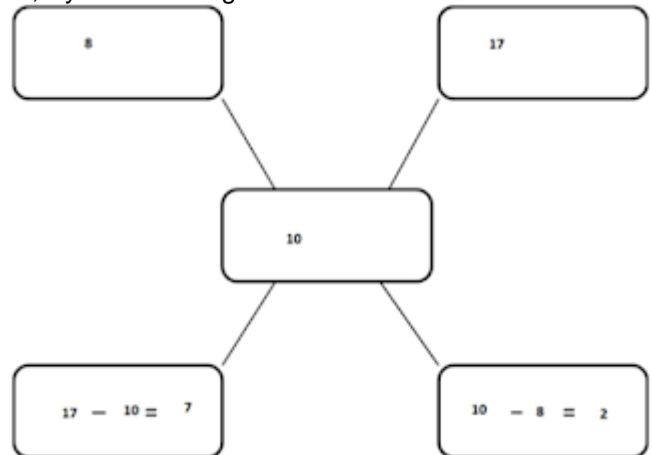
$X = 10$

Thus pipe A & B will fill the cistern in 10 and 15 min respectively.

18. B

Explanation: Average Speed = $90/9 = 10$ kmph

So, By Rule of Allegations



Required Distance = $7 \times 8 = 56$ km

19. C

Explanation

$$: 100 + nn = 100n + nn = 100n + 1 = 100n + \text{integer} \quad 100 + nn = 100n + nn = 100n + 1 = 100n + \text{integer}$$

Now, in order $100n + \text{integer}$ NOT to be an integer $100n$ must NOT be an integer, so nn must NOT be a factor of 100. Hence $n = 3$.

20. B

Explanation : A leap year has 366 days, or 52 weeks + 2 days. This means that 52 Sundays will be there, but for the 53rd, we have to evaluate the possibility of the two extra or odd days to fall on Sunday or Monday.

The possible outcomes for two odd days can be (Mon, Tue); (Tue, Wed); (Wed, Thu); (Thu, Fri); (Fri, Sat); (Sat, Sun) and (Sun, Mon).

Number of favourable cases = 3

Required probability =

21. B

Explanation :The only prime numbers between 60 and 70 are 61 and 67 --> $61+67=128$.

22. B

23. B

Explanation :: Let the third number is A

Then first number is 140% of A = $140 \times A / 100 = 7A / 5$

and second number is 160% of B = $160 \times B / 100 = 8B / 5$.

now ratio of first and second number is $7A / 5 : 8B / 5 =$

$35A : 40B = 7 : 8$.

24.

$$\left(\frac{1}{\log_3 60} + \frac{1}{\log_4 60} + \frac{1}{\log_5 60} \right)$$

$$= \log_{60} 3 + \log_{60} 4 + \log_{60} 5$$

$$= \log_{60} (3 \times 4 \times 5)$$

$$= \log_{60} 60$$

$$= 1.$$

25. D

Explanation :Given: x used cars and y new cars

Number of used cars (x) sold was 10 greater than the number of new cars (y) sold

So, x is 10 greater than y

To show their relative sizes let's write x LARGER than y to get: x and y

Our goal is to create an EQUATION. So, how do we make these two values EQUAL?

Well, we need to make the smaller value (y) bigger. 10 bigger to be exact.

So, we get $x = y + 10$