

38. The last sentence implies that:

- A. probability is not absolute
- B. one to two is merely a guess
- C. one to two is a worthless ratio
- D. truth is not important
- E. genus is a category of species

### Questions 39-44

A fruit seller is deciding which vegetables and fruits will be placed in five consecutive boxes for exhibition, numbered 1 through 5, left to right. Each box will contain one of three species of vegetables: carrots, turnips or potatoes and one of three species of fruits: apples, mangoes or oranges. The fruit seller must abide by the following conditions:  
If turnips are in a given box, apples must also be placed in that box.  
If oranges are in a given box, carrots cannot be in that same box.  
In at least one box, potatoes and apples are together.  
Potatoes are never in consecutively numbered boxes.  
If carrots and turnips are both exhibited, the carrots must always be in lower-numbered boxes than the turnips.  
The second box contains oranges.

39. Which one of the following must be true?

- A. Carrots are exhibited in the first box.
- B. Potatoes are exhibited in the second box.
- C. Potatoes are exhibited in the third box.
- D. Apples are exhibited in the fourth box.
- E. Apples are exhibited in the fifth box.

40. Each of the following is a possible line-up of fruits in the five boxes EXCEPT:

- A. apples, oranges, apples, mangoes, oranges
- B. apples, oranges, mangoes, apples, apples
- C. apples, oranges, apples, apples, apples
- D. mangoes, oranges, mangoes, mangoes, apples
- E. mangoes, oranges, apples, apples, apples

41. Which one of the following is not possible when both carrots and turnips are exhibited?

- A. Apples are exhibited in two consecutive boxes.
- B. Turnips are exhibited in two consecutive boxes.
- C. Mangoes are not exhibited.
- D. Oranges are exhibited in the third box.
- E. Potatoes are exhibited in two different boxes.

7. If I were you, I \_\_\_\_\_ be careful with my words.

- A. will
- B. would
- C. shall
- D. can

8. Labour also was very restive, and in some of the big industrial centres, they were becoming aggressive as attempts were made to \_\_\_\_\_ wages.

- A. alter
- B. modify
- C. reduce
- D. determine

9. He used to \_\_\_\_\_ the point that victory in any field needs \_\_\_\_\_ courage.

- A. emphasise ... little
- B. stress ... exemplary
- C. refute ... no
- D. dismiss ... formidable
- E. distract ... enormous

10. \_\_\_\_\_ inclined to push for such a reduction, it would probably not be successful.

- A. The office of management
- B. The office of management was
- C. In the office of management
- D. Were the office of management

11. We knew him at a glance as soon as he came \_\_\_\_\_ sight.

- A. at
- B. on
- C. to
- D. in



57. If Ahmed were now to take Tariq's seat, then Ahmed

- A. must now be next to Kamal
- B. must be next to Kiran
- C. must be across from Kamal
- D. is either next to or across from Pervaiz
- E. is either next to or across from Imran

Self confidence is a big factor in success. The person who thinks he can will master most of the things he attempts. The person who thinks he can't may not try.

58. The author of these statements would agree that:

- A. nothing is impossible
- B. no task is too large
- C. success relies on effort
- D. self confidence is of utmost importance
- E. trying is half the battle

For every known physical phenomenon, physicists have posited laws that govern the occurrence of that phenomenon. It can be concluded, therefore, that every known physical phenomenon is governed by the same law.

59. The flawed reasoning in the argument above is most similar to that in which one of the following?

- A. The trunk of every tree is a body of tissue that contains both xylem and phloem. Therefore, any body of tissue that contains both xylem and phloem is the trunk of a tree.
- B. Every house has a unique mailing address. Therefore, because these packages are all marked with the same mailing address, they will all be sent to the same house.
- C. Because every action taken by a person can be explained by unconscious motives, a single motive explains all of the actions taken by any person.
- D. No violin that was made in the twentieth century is remarkably valuable. Because this violin is remarkably valuable, it must not have been made in the twentieth century.
- E. For every known star, astronomers can determine that star's elemental composition. Because a star's elemental composition determines its exact color, no two stars are the same exact color.

Each of the following questions consists of a sentence with all or part of the sentence underlined. Following the requirements of standard written English, select (A) if the original is best; otherwise choose the best phrase from the options.

12. Anyone interested in the use of computers can learn much if you have access to a state of the art microcomputer.

- A. if you have access to
- B. if he has access to
- C. if access is available to
- D. by access to
- E. from access to

13. Although I calculate that he will be here any minute, I cannot wait much longer for him.

- A. Although I calculate that he will be here
- B. Although I reckon that he will be here
- C. Although I think that he will be here
- D. Because I am confident that he will be here

14. The principal asked me that I should not enter his office without permission.

- A. that I should not enter
- B. don't enter
- C. not to enter
- D. not entering

15. Hardcover books usually last longer than paperbacks; of course, paperbacks usually are less expensive to purchase.

- A. than paperbacks; of course,
- B. then paperbacks of course,
- C. then paperbacks. Of course,
- D. than paperbacks, of course,
- E. than paperbacks, of course

16. The computer has the capability for processing all the relevant data within half an hour.

- A. has the capability for processing
- B. has the capacity for processing
- C. has the capability in processing
- D. can process
- E. processes



71. In a certain sequence with terms  $x_1, x_2, x_3, \dots, x_n$  the sum of the 'n' terms is 1,458. If the average of the n terms is 6, what is 'n'?

- A. 241
- B. 242
- C. 243
- D. 245
- E. 246

72. If x is an integer between 11 and 21, inclusive, then the median of the list of numbers below must be:

13, 15, 17, 19, x, 14, 16, 18, 20

- A. either 15 or 16
- B. either 16 or 17
- C. either 17 or 18
- D. 16.5
- E. x

73. It takes Ali 5 hours to paint a certain room. It takes Ahmed 4 hours to paint the same room. How many hours would it take Ali and Ahmed working together at their respective rates to paint the room together?

- A.  $\frac{9}{20}$  hours
- B.  $2\frac{2}{9}$  hours
- C.  $2\frac{1}{2}$  hours
- D. 9 hours

### Questions 60-64

In a Camel Race held in Dubai, camels have to reach the winning line in order to win the competition. Six camels, camel 1, camel 2, camel 3, camel 4, camel 5 and camel 6, have to reach a winning line in a given time, such that

Camel 1 finishes race neither first nor last.

Camel 2 finishes race ahead of both camel 3 and camel 4.

Camel 5 finishes race in third place.

60. Which of the following could be the finishing order of the six camels, from first to last?
- A. camel 1, camel 6, camel 5, camel 2, camel 3, camel 4
  - B. camel 6, camel 3, camel 5, camel 2, camel 1, camel 4
  - C. camel 2, camel 6, camel 5, camel 3, camel 4, camel 1
  - D. camel 2, camel 6, camel 5, camel 1, camel 4, camel 3
  - E. camel 2, camel 5, camel 3, camel 4, camel 1, camel 6
61. All of the following could be a complete and accurate list of the finishing order of the six camels EXCEPT:
- A. camel 6, camel 1, camel 5, camel 4, camel 3, camel 2
  - B. camel 2, camel 4, camel 5, camel 3, camel 1, camel 6
  - C. camel 6, camel 2, camel 5, camel 1, camel 3, camel 4
  - D. camel 2, camel 6, camel 5, camel 1, camel 4, camel 3
  - E. camel 2, camel 1, camel 5, camel 6, camel 3, camel 4
62. Which of the following is a complete and accurate list of all camels which could finish first?
- A. camel 2, camel 3, camel 4 or camel 6
  - B. camel 2 or camel 5
  - C. camel 2 or camel 6
  - D. camel 2, camel 3 or camel 4
  - E. camel 2, camel 3 or camel 6
63. Which of the following camels could finish either first or last?
- A. camel 5
  - B. camel 6
  - C. camel 2
  - D. camel 3
  - E. camel 4

0 6  
2 3  
5 3



### Questions 31-35

The size of each collection route will be determined by the amount of waste per stop, distance between stops, speed of loading, speed of truck, traffic conditions during loading time, etc.

Basically, the route should consist of a proper amount of work for a crew for the daily working period. The crew should service all properties eligible for this service in their area. Routes should, whenever practical, be compact, with a logical progression through the area. Unnecessary travel should be avoided. Traffic conditions on the route should be thoroughly studied to prevent lost time in loading, to reduce hazards to employees, and to minimize tying up of regular traffic movements by collection forces. Natural and physical barriers and arterial streets should be used as route boundaries wherever possible to avoid lost time in travel.

Routes within a district should be laid out so that the crews start at the point farthest from the disposal area and, as the day progresses, move toward that area, thus reducing the length of the haul. When possible, the work of the crews in a district should be parallel as they progress throughout the day, with routes finishing up within a short distance of each other. This enables the supervisor to be present when crews are completing their work and enables him to shift crews to trouble spots to complete the day's work.

31. Based on the above passage, an advantage of having collection routes end near one another is that:

- A. routes can be made more compact
- B. unnecessary travel is avoided, saving manpower
- C. the length of the haul is reduced
- D. the supervisor can exercise better manpower control

32. Of the factors mentioned above which affect the size of a collection route, the two over which the sanitation forces have LEAST control are:

- A. amount of waste; traffic conditions
- B. speed of loading; amount of waste
- C. speed of truck; distance between stops
- D. traffic conditions; speed of truck

33. According to the above passage, the size of a collection route is probably good if:

- A. it is a fair day's work for a normal crew
- B. it is not necessary for the trucks to travel too fast
- C. the amount of waste collected can be handled properly
- D. the distance between stops is approximately equal

48. Which of the following is a computer lab's code word?
- A. K, L, L, N
  - B. L, O, M, L
  - C. M, L, L, O
  - D. N, M, K, O
  - E. O, N, K, M
49. What is the total number of different computer lab's code words exactly three identical letters long that it is possible to make?
- A. 1
  - B. 2
  - C. 3
  - D. 4
  - E. 5
50. The computer lab's code word M, M, L, L, O, K, N can be turned into computer lab's another code word by carrying out any one of the following changes EXCEPT:
- A. replacing every L with an N
  - B. replacing the first M with an O
  - C. replacing the N with an O
  - D. moving the O to the immediate right of the N
  - E. moving the second L to the immediate left of the K
51. Which of the following is not a computer lab's code word but could be turned into one by changing the order of the letters within the word?
- A. K, L, M, N, O
  - B. L, L, L, K, N
  - C. M, K, N, O, N
  - D. N, K, L, M, L
  - E. O, M, M, L, L
52. Which of the following could be turned into a computer lab's code word by replacing the 'X' with a letter used in the computer lab's code?
- A. M, K, X, N, O
  - B. M, X, K, M, N
  - C. X, M, M, K, O
  - D. X, M, O, L, K
  - E. X, O, K, L, L



Four/five lettered pairs (A to D/E) follow a related pair of words given in capitals. Select the lettered pair that best expresses a relationship similar to that expressed in the original pair in capitals.

17. VERDICT: JUDGMENT::

- A. jet: helicopter
- B. observation: science
- C. principal: school
- D. infant: baby

18. ADDICTED: DEDICATED::

- A. slavish: kindly
- B. fanatical: enthusiastic
- C. acute: chronic
- D. temporary: permanent
- E. habitual: continuous

19. EXPEND: REPLENISH::

- A. occupy: re-occupy
- B. encroachment: occupy
- C. resign: rejoin
- D. ferment: rebellion
- E. exhort: encourage

20. GOOD: EXCELLENT::

- A. bad: immoral
- B. caution: careless
- C. hill: mountain
- D. jealousy: respect
- E. sickness: medicines

21. CONVICT: GUILTY::

- A. clock: digital
- B. rainforest: lush
- C. film: lengthy
- D. parachute: heavy

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It takes a good telescope to see the moons of Neptune. I can't see the moons of Neptune with my telescope. Therefore, I do not have a good telescope.

36. Which one of the following most closely parallels the logic of this statement?

- A. It takes two to tango. You are doing the tango. Therefore, you have a partner.
- B. If you have a surfboard, you can surf. You do not have a surfboard. Therefore, you cannot surf.
- C. You need lemon, sugar and water to make lemonade. You do not have any lemon. Therefore, you cannot make lemonade.
- D. If you know the area of a circle, you can find its circumference. You cannot figure out the circumference. Therefore, you do not know the area.
- E. You can write a letter to your friend with a pencil. You do not have a pencil. Therefore, you cannot write the letter.

### Questions 37-38

Professor: Probability is a curiously unstable concept. Semantically speaking, it is an assumption, a pure artifice, a concept that may or may not be true, but nevertheless facilitates a logical process. It is not a hypothesis because, by its very nature, it cannot be proved. Suppose we flip a coin that has a distinguishable head and tail. In our ignorance of the coming result we say that the coin has one chance in two of falling heads up, or that the probability of a head turning up is one to two. Here it must be understood that the one to two is not "true" but is merely a species of the genus probability.

37. The professor assumes that:

- A. nothing about our coin influences its fall in favor of either side or that all influences are counterbalanced by equal and opposite influences
- B. probability can be dealt with or without the use of logic
- C. an assumption must be plausible
- D. the probability of the coin's landing on an edge is counterbalanced by the probability of its not landing on an edge
- E. probability can be precisely calculated

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78. What is the greatest possible length which can be used to measure exactly the lengths 8 m, 4 m 20 cm and 12 m 20 cm?
- 10 m
  - 20 cm
  - 25 cm
  - 30 cm
  - 20 m
79. An accurate clock shows 8 O'clock in the morning. Through how many degrees will the hour hand rotate when the clock shows 2 O'clock in the afternoon?
- 100
  - 90
  - 180
  - 210
  - 150
80. X and Y invest Rs.21000 and Rs.17500 respectively in a business. At the end of the year, they make a profit of Rs.26400. What is the share of X in the profit?
- Rs.14400
  - Rs.26400
  - Rs.12000
  - Rs.12500
  - Rs.13200
81. 120 Children have provision for 200 days. After 5 days, 30 children die due to an epidemic. The remaining food will now last for:
- $146\frac{1}{4}$  days
  - 150 days
  - 245 days
  - $266\frac{2}{3}$  days
  - 260 days
82. The students of a certain class collected Rs.900, each student contributing as many rupees as there were students in the class. How much did each contribute?
- Rs. 20
  - Rs. 30
  - Rs. 40
  - Rs 50



### Questions 53-57

Two families organized a dinner party together. The seating arrangement of the family members are according to the compulsions based on seniority family members. Qadir, Pervaiz, Imran and Nasir sit around a square table with eight chairs, which are equally distributed.

Kamal, Hina, Tariq and Kiran join them at the table.

Hina and Kiran cannot sit next to each other.

Qadir and Nasir are seated on either side of Imran and are next to him.

Tariq is seated next to Nasir.

Hina is seated next to Qadir but not directly across from Imran.

Qadir is directly across from Kiran.

53. Which male family member could switch positions without contradicting the seating arrangement?

- ☐ A. Imran and Nasir
- ☐ B. Qadir and Imran
- ☐ C. Pervaiz and Tariq
- ☐ D. Kamal and Pervaiz
- ☐ E. Kamal and Imran

54. Which of the following must be false?

- A. Imran is not next to Tariq.
- B. Kiran is not next to Hina.
- C. Nasir is next to Hina.
- D. Imran is across from Pervaiz.
- E. Kamal is not next to Pervaiz.

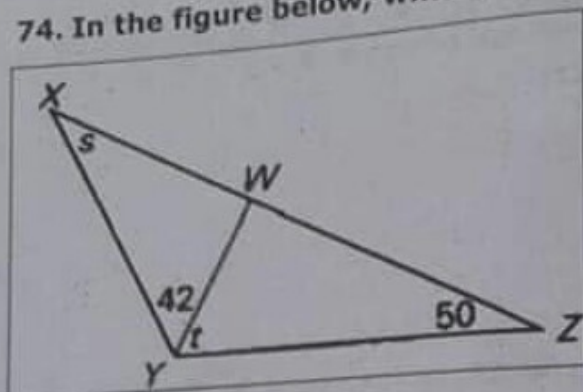
55. Which of the following could be true?

- A. Nasir sits next to Hina.
- B. Nasir sits next to Qadir.
- C. Tariq sits next to Pervaiz.
- D. Qadir sits next to Pervaiz.
- E. Imran sits next to Kiran.

56. Which of the following must be true?

- A. Tariq sits next to Pervaiz.
- B. Kiran sits next to Pervaiz.
- C. Imran sits next to Hina.
- D. Tariq sits next to Kamal.
- E. Kamal sits next to Qadir.

74. In the figure below, what is 's' in terms of 't'?



- A.  $t - 88$
- B.  $t + 88$
- C.  $88 - t$
- D.  $t - 50$
- E.  $50 - t$

75. At a fast food restaurant, two burgers and five orders of French fries cost the same as four burgers and two orders of French fries. If the restaurant charges Rs.1.50 for a single order of French fries, how much does it charge for two burgers?

- A. Rs.2.25
- B. Rs.3.00
- C. Rs.4.50
- D. Rs.5.00
- E. Rs.6.00

76. If half the range of the increasing series  $\{11, A, 23, B, C, 68, 73\}$  is equal to its median, what is the median of the series?

- A. 23
- B. 31
- C. 33
- D. 41
- E. 62

77. In a class of 100 students, 55 students have passed Mathematics and 67 students have passed in Physics. Then the number of students who have passed in Physics only is:

- A. 33
- B. 22
- C. 45
- D. 10
- E. 12

$$\begin{array}{r} 55 \\ 50 \\ \hline 250 \end{array}$$

$$\begin{array}{r} 30 \\ 900 \\ 20 \end{array}$$

$$\begin{array}{r} 50 \quad 50 \\ 50 \quad 30 \\ \hline 150 \\ 50 \quad 30 \\ \hline 0 \end{array}$$



### Questions 29-30

Ecologists remind us of the limits of things and many of them ardently urge less growth. Oil is a commodity we are running out of, they say. So is arable land. So are iron, copper, tin, lead. Not to mention fresh water and good fishing grounds. Conserve, they say. Insulate your houses better and use solar energy. Drive smaller cars, drive more slowly. Have fewer children. Eat less. When will someone tell me that production begets production, that poor people do not find ~~small to be beautiful~~, that there is enough energy in the oceans to last millions of years, and that the consumption I forego is likely to be taken by some less principled denizen of Spaceship Earth?

29. The author probably believes that:

- A. arable land is not in short supply
- B. people should drive big cars
- C. research on how to extract energy from the oceans is important
- D. solar energy is uneconomical
- E. most ecologists are wrong on the issue of growth

30. Which of the following apply (applies) to the passage's final sentence?

- I. It is a rhetorical question, not meant to be answered literally
- II. It does not relate to the previous part of the passage
- III. It is inconsistent in tone with the previous part of the passage

- A. I only
- B. III only
- C. I and II only
- D. II and III only
- E. I, II, and III