

CET Maharashtra – May 16, 2004

Detailed Analysis

DIRECTIONS : Consider the following sequence:

S D V C \$ # M W Y X * B A O E @ R K J G + ?

1. Which symbol/letter is midway between element fifth from left and eighth from right?

- (a) X (b) * (c) Y (d) B
(e) W

Sol. Ans.(a)

2. Find the odd one out.

- (a) S V ? (b) C # J (c) D C + (d) M Y @
(e) V # G

Sol. Ans.(e)

3. If the first half sequence is reversed which symbol/letter is the fifth of fifteenth symbol/letter from left?

- (a) X (b) * (c) Y (d) M
(e) W

Sol. After reversing the first half of the sequence we have

* X Y W M # \$ C V D S B A O E @ R K J G + ?, so the fifth of fifteenth symbol/letter from left is Y.

Ans.(c)

4. If all the symbols are dropped then which letter is seventh to the right of twelfth letter from the right?

- (a) E (b) O (c) A (d) R
(e) K

Sol. After dropping all the symbols we have the following sequence

S D V C M W Y X B A O E R K J G , so the seventh letter to the right of the twelfth letter from right is E. **Ans.(a)**

5. How many symbols are immediately preceded by a symbol and immediately followed by a letter?

- (a) 1 (b) 2 (c) 3 (d) 4
(e) 5

Sol. Ans.(a)

7. If A = 2Z = 52 Find the summation of the letters of the word QUEUE.

- (a) 124 (b) 134 (c) 138 (d) 128
(e) 228

Sol. Every letter of the alphabet is assigned a value which is double of its place value (numerical place number), so Q = 34, U = 42 and E = 10 ∴ the required value is 34 + 42 + 10 + 42 + 10 = 138. **Ans.(c)**

Disclaimer: All these questions have been memorised by PT students. We are merely reproducing a few of them here in fragments to ensure that the huge community of students eagerly waiting to see an objective comparison of their performance gets the right picture.

8. Find the odd one out
(a) Triangle (b) Polygon (c) Rectangle (d) Pentagon
(e) Diagram

Sol. Since all of a, b, c, d are closed figures but a diagram may or may not be closed figure. **Ans. (e)**

10. If CLEVER is coded as REVELC. How is RATING coded?
(a) TARGNI (b) GNITAR (c) GATRNI (d) GTRANI
(e) NITGAR

Sol. The word CLEVER is divided into two halves CLE and VER and the letters have been reversed with the second word written first. Hence RATING would be GNITAR. **Ans. (b)**

11. If 1st Jan is Tuesday. How many Fridays are there in the month of Jan and Feb?
(a) 8 (b) 9 (c) 10 (d) 11
(e) 7

Sol. 1st Jan is Tuesday, so 4th Jan will be Friday and we will have 8 Fridays in the month of Jan and Feb. **Ans. (a)**

12. How many ways can I write EXHAUST such that vowels are together?
(a) 7! ways (b) $5! \times 3!$ ways (c) 8! ways (d) 120 ways
(e) $3! \times 4!$ ways

Sol. The word EXHAUST consists of 3 vowels i.e. E, A, U and 4 consonants i.e. X, H, S, T. Consider all the vowels as single unit so we have now totally 5 letters which can be arranged in 5! ways but the vowels can be arranged between themselves in 3! ways, hence the required number of ways is $5! \times 3!$ ways. **Ans. (b)**

13. A person sells an article at 8% discount and still makes 15% profit. What is the profit if he does not give the discount?
(a) 25% (b) 22.5% (c) 19% (d) 20%
(e) 30%

Sol. From the given data we have $\frac{92}{100}MP = 1.15CP \Rightarrow MP = 1.25CP$. Hence the profit if he doesn't give the discount is 25%.

Ans. (a)

DIRECTIONS : For the given word, pick the option that is farthest in meaning.

14. Disparagement
(a) Demean (b) Appraise (c) Accolade (d) Exolt
(e) Praise

Sol. Ans. (a)

15. Profane
(a) Religious (b) Earthly (c) Defile (d) Blasphemy
(e) Impious

Sol. Ans. (a)

16. Confirmation
(a) Endorsement (b) Substantiate (c) Ratify (d) Corroborate
(e) Disapprove

Sol. Ans. (e)

17. Ratify
(a) Confirm (b) Reject (c) Certify (d) Affirm
(e) Sanction

Sol. Ans. (b)

DIRECTIONS : For the given word, pick the option which is closest in meaning.

18. Acumen

- (a) Sharpness (b) Dull (c) Non-sensical (d) Unsavvy
(e) Witless

Sol. Ans. (a)

19. Impending

- (a) Forthcoming (b) Unimportant (c) Delaying (d) Procrastinate
(e) Dilly-Dally

Sol. Ans. (a)

20. Ethic

- (a) Moral Principle (b) Immoral (c) Falsehood (d) Mendacity
(e) Dishonest

Sol. Ans. (a)

21. Annex

- (a) Relinquish (b) Append (c) Repeal (d) Tear apart
(e) None of these

Sol. Ans. (b)

22. Calculate the compound interest for Rs.15000/- for 2 years @ 20 %. Interest being calculated half yearly?

- (a) Rs.3961.5 (b) Rs.6961.5 (c) Rs.4961.5 (d) Rs.5961.5
(e) Rs.6961.5

Sol. The required interest is = $15000 \left[1 + \frac{20}{100} \right]^2 - 15000 = 21961.5 - 15000 = \text{Rs.}6961.5$. **Ans. (e)**

23. If one third of $\frac{2}{5}$ th of x is equal to $\frac{3}{7}$ th of y. What's x/y?

- (a) $\frac{43}{14}$ (b) $\frac{35}{13}$ (c) $\frac{45}{14}$ (d) $\frac{27}{14}$
(e) None of these

24. The unit digit of a two digit number is two more than the tens digit and the sum of the digits is 8. Find 80% of the number.

- (a) 28 (b) 14 (c) 21 (d) 35
(e) 53

Sol. Let xy be the two digit number then given that $y = x + 2$, and $x + y = 8$. Solving these we get $x = 3$, $y = 5$. So the number is 35 and 80% of 35 = 28. **Ans. (a)**

25. In a box containing 5 Red and 3 Blue balls. If two balls are drawn, what is the probability of selecting two red balls?

- (a) $\frac{5}{14}$ (b) $\frac{5}{8}$ (c) $\frac{1}{2}$ (d) $\frac{10}{27}$
(e) $\frac{3}{14}$

Sol. There are 8 balls in all, the number of ways of selecting any two balls out of 8 is ${}^8C_2 = 28$ ways.

The number of ways of selecting two red balls is ${}^5C_2 = 10$ ways, Hence the required probability is $\frac{10}{28} = \frac{5}{14}$. **Ans. (a)**

26. If NAME is coded as MAME and COLD is coded as BOLD. How is SAIL coded?

- (a) RAIL (b) TAIL (c) MAIL (d) NAIL
(e) VAIL

Sol. The first letter of the word is moved back by one letter. **Ans. (a)**

DIRECTIONS : For the following questions, fill in the blank spaces with the best choice from the given options.

27. The people of the country Mahatma Gandhi's principles.
(a) valued (b) degraded (c) apprised (d) discarded
(e) none of these

Sol. Ans.(a)

28. The soldiers show their in the battle field.
(a) sportsmanship (b) mettle (c) poise (d) confidence
(e) skills

Sol. Ans.(b)

DIRECTIONS : Based on the following directions answer the questions that follow

- Mark a: If statement 'a' alone is sufficient to answer the question but not statement 'b'.
Mark b: If statement 'b' alone is sufficient to answer the question but not statement 'a'.
Mark c: If either statement 'a' or statement 'b' alone is sufficient to answer the question.
Mark d: If neither statement 'a' nor 'b' is sufficient to answer the question
Mark e: If both the statements 'a' and 'b' are required to answer the question.

29. How many of the 6 Subjects (English, Hindi, Maths, Chemistry, Physics, Biology) did Vandana pass?
(a) In the six subjects she scored an aggregate of 85%
(b) In English and Hindi she got 72%

Sol. The question cannot be answered even after using both the statements together as we do not know the passing percentage.
Ans.(d)

30. What is the speed of the current?
(a) Speed of the boat in the still water is 20 kmph
(b) It takes 2.5 hrs. to cross a distance of 45 kms. upstream

Sol. The question cannot be answered using the individual statements but the solution can be found by using both the statements together. Given $x = 20$ kmph and $\frac{45}{20-y} = \frac{5}{2} \Rightarrow y = 2$ kmph. **Ans.(e)**

31. What is the rate of interest?
(a) Simple interest for two years is Rs.4000/-
(b) Difference between Simple and compound interest for two years is Rs.400/-

Sol. The question can be answered using both the statements together. **Ans.(e)**

32. What is the age of B?
(a) Present age of A & B are in the ratio of 7:8.
(b) 10 years hence the ratio of ages of A & B is 9:10.

Sol. Let the present ages of A and B be $7x$ and $8x$ respectively, 10 years hence their ages would be $7x + 10$ and $8x + 10$ respectively, so we have $\frac{7x+10}{8x+10} = \frac{9}{10} \Rightarrow x = 5$. \therefore B's present age is $8 \times 5 = 40$ years.
Hence the question can be solved using both the statements together. **Ans.(e)**

33. What is the area of the circular field?
(a) Area of the circular field is equal to the area of the square with side equals to 7 metres.
(b) Area of the square is equal to 10 m^2 .

Sol. The question can be answered using the statement a alone. **Ans.(a)**

34. Mr. X walks 25 km. He turns left and walks 8 kms. And again takes a left turn and walks 19 kms. How far is he from his original position?
 (a) 8 km (b) 10 km (c) 12 km (d) 13 km
 (e) None of these

Sol. Whatever be the initial position in which X travelled 25 km we will get the final distance from the starting point as 10 km. **Ans.(b)**

35. Five men A, B, C, D, E are standing in a row. C is in between A and D. E is standing immediately to the left of A. Who is standing on the extreme right?
 (a) B (b) C (c) D (d) E
 (e) Cannot be determined

Sol. The arrangement can be BDCAE or DCAEB. **Ans.(e)**

36. Find the value of * (4 Ques) in $75^5 \times 3^4 \times 5^8 \div 75^{7.5} = 75^*$
 (a) 1.5 (b) 2.5 (c) 3.5 (d) -1.5
 (e) -2.5

Sol. Ans.(a)

37. If from the natural numbers from 1 to 65, all the perfect cubes and the perfect squares are removed, How many numbers are left?
 (a) 52 (b) 55 (c) 56 (d) 57
 (e) 53

Sol. The perfect squares and cubes below 65 are 1, 4, 9, 16, 25, 36, 49, 64 and the perfect cubes are 8, 27, 64. So the total number of numbers to be removed are 10. Hence the required result is $65 - 10 = 55$. **Ans.(b)**

38. If 25% of 80% of $850 + x = 920$ then what is the value of x?
 (a) 3750 (b) 375 (c) 37500 (d) 37.5
 (e) 3250

Sol. $\frac{1}{4} \times \frac{8}{10} \times (850 + x) = 920 \Rightarrow x = 3750$. **Ans.(a)**

Data Interpretation (10 Ques.)

Based on the following information there was a set consisting 10 questions which could have been answered easily.

DIRECTIONS for Q.39 to Q.49 : Criteria for the admission to system management course of Philadelphia Institute of Management.

- Graduation with 50% in aggregate (Second class). 5% relaxed for SC /ST
- Age limit for male candidates is 20 years and for female candidates is 19 years as on 1st Jan 2004.
- Application form accepted with a minimum deposit of Rs.25000/-
- If marks at graduation exceeds 75% then the deposit payable will be Rs.15000/-
- If marks at graduation exceeds 60% to 70% then the deposit payable will be Rs.20,000/-.
- In case of SC/ST candidates, the deposit payable would be 20% of the figure.
- If related to any staff, the deposit payable would be 20% of the figure.
- The candidate remitting at least (3/4)th of the amount of deposit in cash would be referred to secretary of Philadelphia Institute of Management
- The candidate remitting at least 1/2 of the amount of deposit in cash would be referred to the chairman of Philadelphia Institute of Management
- All the candidates remitting less than 1/2 of the amount of deposit in cash would be rejected.

The questions based on the following models were also asked.

Q.50 to Q.54 : Pie Chart: State wise population of 6 cities in 2002 & 2003 (5 Ques.)

Q.55 to Q.59 : Table: Production of X items by different units of ABC Limited (5 Ques.)

Q.60 to Q.64 : Table: Number of students & % of placement in six institutes (A to F) from 1997-2002.

Sample Questions from table:

- Q. Find the average number of students getting placed from institute D.
- Q. Find the overall percentage of students who got placement from institute C for the given years.



We have tried to replicate a few questions purely on the basis of the memory of PT students and faculty members who had appeared for the test.

In case you wish to add a few questions in the analysis, please send the same at the following email ID : pinnacle@ptindia.com