

**Directions of Test**

Test Name	Bull Placement Goldman Sachs 02	Total Questions	37	Total Time	135 Mins
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Section Name	No. of Questions	Marks per Question	Negative Marking
Aptitude	25	1	0
Technical	10	1	0
Coding	2	1	0

**Section : Aptitude****QNo:- 1 ,Correct Answer:- C****Explanation:-**

Start with the lowest options.  ${}^5C_1 = 5$  ways.  ${}^5C_2 = 10$  ways. It does not serve the purpose. Next option of 6 colours can solve the problem.

**QNo:- 2 ,Correct Answer:- C****Explanation:-**

Let n1 is the no. of apple  
and n2 = of oranges  
 $\therefore n1A + n2O = 17 \dots\dots(1)$   
 $n2 A + n1O = 15 \dots\dots(2)$   
 Adding (1) and (2) we get  
 $(n1 + n2)A + (n1 + n2) O = 32$   
 $(n1 + n2) [A + O] = 32$   
 $n1 + n2 = 40 \dots\dots(given)$   
 $\therefore A + O = \frac{32}{40} = 0.8 Rs = 80 \text{ Paise}$

**QNo:- 3 ,Correct Answer:- A****Explanation:-** Let number of boys be B

ATQ,  
 $(B*20 + 20*15)/20+B = 18$   
 $20B + 300 = 360 + 18B$   
 $2B = 60$   
 $B = 30$



**QNo:- 4 ,Correct Answer:- B**

**Explanation:-**

Let the total number of days of my tour away from home be 'n'.

My expenditure, on day 1 =  $10 \times 1$

On day 2 =  $10 \times 2$ ,

On day 3 =  $10 \times 3$  and so on

Therefore, on day n =  $10 \times n$

$\therefore 10 \times 1 + 10 \times 2 + 10 \times 3 + \dots + 10 \times n = 18300$

$\Rightarrow 10[1 + 2 + 3 + \dots + n] = 18300$

$\Rightarrow n(n + 1)/2 = 1830$

$\Rightarrow n(n + 1) = 3660 = 60 \times 61$

$\Rightarrow n = 60$  days or 2 months

**QNo:- 5 ,Correct Answer:- B**

**Explanation:-**

Let CP = x

SP =  $1.19x$  (Gain 19%)

Let MP = y (Discount 15%)

SP =  $.85y$

$.85y = 1.19x$

$\Rightarrow y = 1.4x$

Mark up = 40%

Alternatively

Let CP = 100

SP = 119

Now 119/- SP is 85% of MP

$\Rightarrow 100\% \text{ of MP} = \frac{119}{.85} = 140/-$

$\Rightarrow MP = 140/-$  & CP = 100/-

$\Rightarrow$  Mark up = 40%

**QNo:- 6 ,Correct Answer:- C**

**Explanation:-**

Let 'x' red marbles will be added to the jar Then, according to the conditions,

$$(10 + x) = \frac{60}{100} \times (40 + x) \Rightarrow x = 35$$



**QNo:- 7 ,Correct Answer:- C**

**Explanation:-** Let their shares be  $x$  and  $y$  Rs

$$\text{So, } x + y = 18750$$

$$\text{Amount attained by Indrajit at age 20} = x + \frac{x \cdot 6.5}{100} = 1.3x$$

$$\text{Amount attained by Prahasta} = y + \frac{y \cdot 4.5}{100} = 1.2y$$

$$\text{Given } 1.3x = 1.2y$$

$$\Rightarrow \frac{x}{y} = \frac{12}{13}$$

So, dividing 18750 in 12 : 13 gives

$$x = 9000$$

$$y = 9750$$

$$\text{So, } |x - y| = \text{Rs. } 750$$

**QNo:- 8 ,Correct Answer:- A**

**Explanation:-**

Since  $BDE$  is an equilateral triangle on one side of the square each side of triangle  $BDE$  will be equal to the side of the square. Thus  $DC=ED$  i.e. triangle  $DCE$  is an isosceles triangle in which  $\angle DCE = \angle DEC$ . But  $m(\angle CDE) = m(\angle CDB + \angle BDE) = 90 + 60 = 150$ . Thus  $m(\angle DCE) = m(\angle DEC) = (30/2) = 15$ .

**QNo:- 9 ,Correct Answer:- B**

**Explanation:-**

The area of the park is Length  $\times$  Breadth. So,  $60 \times 40 = 2400$ . Now, as area of park - area of path = 2109, so, if  $b$  = width of the path, then  $100b - b^2 = 291$ , on solving  $b = 3$ . Hence width of the path = 3.

**QNo:- 10 ,Correct Answer:- B**

**Explanation:-** Ratio of 50p : 25p : 10p coins = 5:9:4

In one set, value of 50p coins =  $5 \times 50 = \text{Rs. } 2.50$

value of 25p coins =  $9 \times 25 = \text{Rs. } 2.25$

value of 10p coins =  $4 \times 10 = \text{Rs. } 0.40$

Therefore, 1 set has Rs. 5.15  $\Rightarrow$  total sets =  $206/5.15 = 40$

In 1 set no. of 50p coins = 5, in 40 sets =  $5 \times 40 = 200$  coins



**QNo:- 11 ,Correct Answer:- A**

**Explanation:-**

According to the question;

$$\frac{300}{x} - \frac{300}{(x+5)} = 2;$$
$$\frac{300x + 1500 - 300x}{x(x+5)} = 2;$$

$$2x^2 + 10x - 1500 = 0;$$

$$2x^2 + 60x - 50x - 1500 = 0;$$

$$(x + 30)(2x - 50) = 0;$$

$$x = -30, 25$$

Therefore, the original speed of the train is 25km/hr.

**QNo:- 12 ,Correct Answer:- A**

**Explanation:-** We have  $(12m + 16b) \times 5 = (13m + 24b) \times 4$

$$\Rightarrow 60m + 80b = 52m + 96b$$

$$\Rightarrow 8m = 16b$$

$$\Rightarrow m : b = 2 : 1.$$

**QNo:- 13 ,Correct Answer:- C**

**Explanation:-**

When 21 books of Literature are arranged in a row, there will create 22 places. Now we have to place 19 books of Nature at these 22 places which can be done in  ${}^{22}C_{19} = 1540$  ways.

**QNo:- 14 ,Correct Answer:- B**

**Explanation:-**

A and B win a prize, only if both A and B select the number. So, if A chooses a number, B has to select the same number. Hence, it is problem on dependent event.

Let A select a number, then  $P(A) = 1/16 =$  probability of A.

Now, B selects the same number after A has already selected that number.

Then,  $P(B/A) = 1/1 =$  dependent probability of B given A has occurred.

$P(AB) =$  Probability of winning a prize by both A and B is  $= P(A) \times P(B/A)$ .

$$= (1/16) \times 1 = 1/16.$$

Hence, the probability of not winning a prize is  $= 1 - (1/16) = 15/16$ .



**QNo:- 15 ,Correct Answer:- C**

**Explanation:-**

$$\log_b 5^2 + \log_b 9^{\frac{1}{2}} - \log_b 3 = \log_b x$$

$$\log_b 25 + \log_b 3 - \log_b 3 = \log_b x$$

$$\log_b 25 = \log_b x$$

$$x = 25$$

**QNo:- 16 ,Correct Answer:- D**

**Explanation:-**

For these types of questions immediately after seeing inputs, we check the last step. We see that there is some definite pattern of arrangement of words/digits is going on. Particularly in this questions right from the first step to the last step, we have rearranged the numbers in ascending order and words in alphabetically decreasing order. Also note that numbers and words are arranged alternately.

Input : 17 85 pearls garland 67 93 restriction judgement

1st step : 17 restriction 85 pearls garland 67 93 judgement

2nd step : 17 restriction 67 85 pearls garland 93 judgement

3rd step : 17 restriction 67 pearls 85 garland 93 judgement

So, 3rd step is given in option 4.

**QNo:- 17 ,Correct Answer:- D**

**Explanation:-**

For these types of questions immediately after seeing inputs, we check the last step. We see that there is some definite pattern of arrangement of words/digits is going on. Particularly in this questions right from the first step to the last step, we have rearranged the numbers in ascending order and words in alphabetically decreasing order. Also note that numbers and words are arranged alternately.

Be careful in these questions that any step backwards cannot be found definitely as there will always be more than one options available. Hence the answer will be cannot be determined.

**QNo:- 18 ,Correct Answer:- E**

**Explanation:-**

Studying the position of **C** we check that it is moving one step up and down diagonally so it should be placed in the bottom right corner and a new figure comes at one of the corners starting from bottom LHS and then the next new figure appears at the top left, then top right and so on i.e. it appears clockwise on new corners. So, answer is option 5.



**QNo:- 19 ,Correct Answer:- B**

**Explanation:-**

Everytime a part of petal is added and the figure turns 45° and 90° anticlockwise alternatively and new petal part is added on the front while moving anticlockwise.Hence 2nd option is the next pattern

**QNo:- 20 ,Correct Answer:- D**

**Explanation:-**

The symbol on the top right moves to the top left and size is reduced and the symbol on the top left moves to the middle. Therefore, option D is the next figure in the sequence.

**QNo:- 21 ,Correct Answer:- C**

**Explanation:-**

Accuse means to charge with the fault, offense, or crime.

Belaud is to praise excessively.

Exhilarating means to enliven; invigorate;

Implicate is to show to be involved.

Announce means to make known publicly or officially; **So,option 3 is correct.**

**QNo:- 22 ,Correct Answer:- C**

**Explanation:-** Dutiful means performing the duties expected or required of one; characterized by doing one's duty .

Whimsical is erratic; unpredictable.

Pious is having or showing a dutiful spirit of reverence for God or an earnest wish to fulfill religious obligations.

Reverence means a feeling or attitude of deep respect tinged with awe.

So,option 3 brings in the antonym to the given word.

**QNo:- 23 ,Correct Answer:- D**

**Explanation:-** Bunk means to abscond or escape from school or work. Escape is the most appropriate answer here.

**QNo:- 24 ,Correct Answer:- B**

**Explanation:-** Malleable means easily influenced; pliable.

So the antonym will be **RIGID**.

**QNo:- 25 ,Correct Answer:- C**

**Explanation:-** Tolerable means something that is able to be experienced without reactions or tolerated.

**Section : Technical**

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**QNo:- 26 ,Correct Answer:- D**

**Explanation:-**

*There are four parameters in minmax function. They are value1 and value2, initializer and comparison function.*

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**QNo:- 27 ,Correct Answer:- A**

**Explanation:-** *In this program, minimum value and maximum value of a range will be found out, therefore output will be : 2 9*

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**QNo:- 28 ,Correct Answer:- B**

**Explanation:-**

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**QNo:- 29 ,Correct Answer:- C**

**Explanation:-**

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**QNo:- 30 ,Correct Answer:- A**

**Explanation:-**

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**QNo:- 31 ,Correct Answer:- B**

**Explanation:-**

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**QNo:- 32 ,Correct Answer:- C**

**Explanation:-**

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**QNo:- 33 ,Correct Answer:- D**

**Explanation:-**

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**QNo:- 34 ,Correct Answer:- A**

**Explanation:-**

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**QNo:- 35 ,Correct Answer:- C**

**Explanation:-**

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***Section : Coding***

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***QNo:- 36 ,Correct Answer:-***

***Explanation:-***

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***QNo:- 37 ,Correct Answer:-***

***Explanation:-***