

1. if a person is sitting in a exam having 30 questions (objective type) the examiner use the formula to calculate the score is $S=30+4c-w$ here c is number of correct answer and w is number of wrong answer , the examiner find the score is more than 80, tell how may questions are correct ? if the score is little less but still more than 80 then u wont be able to answer.

Ans:- 16

2. if a person having 1000 rs and he want to distribute this to his five children in the manner that each son having 20 rs more than the younger one , what will be the share of youngest child

Ans- 160

3. There are 100 men in town. Out of which 85% were married, 70% have a phone, 75% own a car, 80% own a house. What is the maximum number of people who are married, own a phone, own a car and own a house ? (3 marks)

Ans: 15%

4. There are 10 Red, 10 Blue, 10 Green, 10 Yellow, 10 White balls in a bag. If you are blindfolded and asked to pick up the balls from the bag, what is the minimum number of balls required to get a pair of atleast one colour ? (2 Marks)

Ans :6 balls.

4. $A+B+C+D=D+E+F+G=G+H+I=17$ given $A=4$. Find value of G and H?

Ans: $G = 5$ $E=1$

5. One guy has Rs. 100/- in hand. He has to buy 100 balls. One football costs Rs. 15/, One Cricket ball costs Re. 1/- and one table tennis ball costs Rs. 0.25 He spend the whole Rs. 100/- to buy the balls. How many of each balls he bought?

Ans: $F=3,T=56,C=41$

6. The door of Aditya's house faces the east. From the back side of his house, he walks straight 50 metres, then turns to the right and walks 50 metres, then turns towards left and stops after walking 25 metres . Now Aditya is in which direction from the starting point?

- (A) South-East
- (B) North-East
- (C) South- West
- (D) North-West
- (E) None of these

Ans : (D)

7. P, Q, R and S are playing a game of carrom. P, R, and S, Q are partners. S is to the right of R who is facing west. Then Q is facing ?

- (A) North
- (B) South
- (C) East
- (D) West
- (E) None of these

Ans : (A)

8. A clock is so placed that at 12 noon its minute hand points towards north-east. In which direction does its hour hand point at 1.30 p.m?

- (A) North
- (B) South
- (C) East
- (D) West
- (E) None of these

Ans: C

9. If painting T is chosen to be among the paintings included in the exhibit which one of the following cannot be chosen to be among the paintings included in the exhibit?

- A. U
- B. V
- C. W
- D. Y
- E. Z

10. Which one of the following substitutions can the artist always make without violating restrictions affecting the combination of paintings given that the painting mentioned first was not, and the painting mentioned first was not, and the painting mentioned second was, originally going to be chosen ?

- A. T replaces V
- B. U replaces Y
- C. V replaces X
- D. W replaces Y
- E. Z replaces W

11. When the actual time past 1 hr wall clock is 10 min behind it when 1 hr is shown by wall clock, table clock shows 10 min ahead of it when table clock shows 1 hr the alarm clock goes 5 min behind it, when alarm clock goes 1 hr wrist watch is 5 min ahead of it assuming that all clocks are correct with actual time at 12 noon what will be time shown by wrist watch after 6 hr

Ans---5:47:32.5

$$(n \times 60) \times \frac{50}{60} \times \frac{70}{60} \times \frac{55}{60} \times \frac{65}{60}$$

12. Complete the following

a. \$ * * \$ @ * ? ?

@ @ # # \$? ? some what similar like this...but not clear.

b. 1 , 3 , 7 , 13 , 21 , __ , 43 Ans : 31

c. 1, 3, 9, __ , 16900

13. A girl had several dollars with her. she went out for shopping and spent half of them in shopping mall, being generous she had given 1 dollar to the beggar. After that she went for lunch and spent the half of the remaining and gave 2 dollars as tip to the waiter. Then she went to watch a movie and spent the half of remaining dollars and gave autorikshaw-wala 3 dollars. This left her with only 1 dollar. How many dollars did she had with her at the beginning.

14. A person says that his son is 5 times as old as his daughter and his wife is 5 times older than his son and he is twice the age of his wife . The sum total of all the ages equals the age of the grand mother who celebrated her 81st birthday today.

How old was his son?

15. A Couple decided to travel a north country side .so they decide to travel a minimum amount on car the first day and the second and subsequent day a distance of 20 miles .If they travel a total amount of 1080 miles. Find the distance traveled on the 4th day and the 9 day.

16. A card board of 34×14 has to be attached to a wooden box and a total of 35 pins are to be used on the each side of the card box. Find the total number of pins used .

17. During a Pizza buffet where A eats more times 2.4 than B, and B eats 6 times less than C.find the least number of times all the three has to eat.

18. Last Year my cousin came to my place and we played a game where the losing one has to give one chocolate to the person who won the game .At the end of the vacation,i.e the day my cousin was leaving she counted number of games that i won and she won.At last she gave me a total of 8 chocolates even though she won about 12 games.
Find the number of games that we played.

19. A tree on first day grows $\frac{1}{2}$ of its size second day $\frac{1}{3}$ rd of its size on the previous day similarly than $\frac{1}{4}$ th and so on.u have to calculate after how many days the tree will be 100 times of its original size.
ans -198 days

20. When a signal of 10 mV at 75 MHz is to be measured then which of the following instruments can be used –

- a.) VTVM
- b.) Cathode ray oscilloscope
- c.) Moving iron voltmeter
- d.) Digital multimeter

BPCL Placement Paper-2

1. Find the digits X,Y,Z

X X X X

Y Y Y Y +

Z Z Z Z

Y X X X Z

Ans: X Y Z

2. A man starts walking at 3 pm . he walks at a speed of 4 km/hr on level ground and at a speed of 3 km/hr on uphill , 6 km/hr downhill and then 4 km/hr on level ground to reach home at 9 pm.
What is the distance covered on one way?

Ans: 12 km

3. A grandma has many sons; each son has as many sons as his brothers. What is her age if it's the product of the no: of her sons and grandsons plus no: of her sons?(age b/w 70 and 100).

Ans: 81

4. An electric wire runs for 1 km b/w some no: of poles. If one pole is removed the distance b/w each pole increases by $1\frac{2}{6}$ (mixed fraction). How many poles were there initially?

5. There is a church tower 150 feet tall and another catholic tower at a distance of 350 feet from it which is 200 feet tall. There is one each bird sitting on top of both the towers. They fly at a constant speed and time to reach a grain in b/w the towers at the same time. At what distance from the church is the grain?

Ans: 90

6. there are 3 customers who want to take a hair cut and shave. there are 2 barbers who take one quarter of an hour for a hair cut, and 5 minutes for a shave. both the barbers want to finish off and go quickly to their homes. in what time can do it.

7. we travelled to a place at the rate of 10 miles per hour and of course returned the same way, but owing to less traffic at the rate of 15 miles per hour. what was our relative speed.

8. there are 3 types of apples in a box. what is the number of apples we should take so that we end up with 3 apples of one kind.

9.. a).3,6,13,26,33,66,_ b).0, 1,2,13 ,6,33 ,12, 63,20, 103,_

10. Each alphabet A,B.. Z is a constant. $A=1, B=2, C=3^2, D=4^3$ n so on. Each letter is assigned a value - the position of that letter raised to the value of preceding alphabet. ($C = 3^2, D = 4^3$ n so on)

Compute the numerical value of $(X-A)(X-B)(X-C) \dots (X-Y)(X-Z)$.

11.. Mr. T has a wrong weighing pan. One arm is lengthier than other. 1 kilogram on left balances 8 melons on right. 1 kilogram on right balances 2 melons on left. If all melons are equal in weight, what is the weight of a single melon?

12 Matrix problem repeated from prev paper there are 3 males A,B,C and 3 females X,Y,W. they played 18 games of golf altogether.

1. A scored 94

2. X scored 106

3. Y scored 102.

4. Z scored 100.

5. B and C scored 96 and 98 and don't know who's score what??

6. A's wife beats C's wife.

7. there are two couples whose sum of scores is same.

Determine who's wife is who and scores of B and C.

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15. A,B,C,D and E are juniors and F,G,H,I are seniors you have to make three groups each containing three persons such that in each group one senior is there and some other conditions which I can't recall exactly but was like that if this person will be in group then this can't be in the same group.

16. there are 100 teams in a football knockout tournament how many matches should be held to get the winner answer is 99 i.e. one less than the no. of teams because in every match one team goes out

17. A car traveling with uniform speed. There are 15 poles. A car travels from 1 to 10th pole in 10 seconds. The poles are equally spaced. Then how many seconds it takes to reach the 15th pole?
(4)

18. Six years ago I was three times as old as my brother, and now I am twice as old as my brother. Find my brother's age.

a) 8 years b) 24 years c) 12 years d) 16 years

19. A boy standing idle sounds a whistle to his friend at a distance of 1200 m moving away from him in a speeding car at 108 km/hr. Find the duration after which his friend is going to hear him. (Speed of sound = 330 m/sec).

a) 3.6 secs b) 4.00 secs c) 40 secs d) None of these

20. Sneha's age is $\frac{1}{6}$ th of her father's age. Sneha's father's age will be twice of Vimal's age after 10 years. If Vimal's eighth birthday was celebrated two years before, what is Sneha's present age?

a) 24 years b) 30 years c) $6\frac{2}{3}$ years d) None of these