



IBPS PO Mains 2018

Data Analysis & Interpretation

Questions

(Memory Based)

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- Two bags A and B contain different colors of balls. In bag A, there are 2 red balls, 3 green balls and 5 white balls while bag B contain 4 red balls, 'x' green balls and 3 white balls. If the probability of drawing two green balls from bag A is $\frac{7}{330}$ more than the probability of drawing 3 green balls from bag B, then find the value of 'x'.
A. 4 B. 6
C. 5 D. 7
E. None of these
- Two trains, Train A and Train B crosses each other completely in 18 sec while travelling in opposite directions, speed of train A is 72 km/hr and speed of train B is 54 km/hr. Moreover, length of train A is 170 m less than the length of train B. Which of the following values we can get from the above given conditions.
a) Length of train A
b) Time taken by train B to cross a pole
c) Time taken by train A to cross platform of length 233 m
d) Initial distance between both the trains.
A. A only B. A, B and C only
C. B, C and D only D. A, B, C and D
E. Only C
- Vikram travel a certain distance from point X to Y with a speed S kmph. If he travels the same distance with a speed (S+12) kmph, he reaches his destination 1 hour before. But if he travels with a speed of (S - 4) kmph, he reaches 30 min late. Which of the following values we can find from the given conditions.
a) Speed of Ram, who can travel the same distance in 3 hours
b) Speed of Vikram, when he reaches 30 minutes late
c) Distance between X and Z, if Z lies in between X and Y
d) Value of S
A. A, B and D only B. D only
C. B, C and D only D. A, B and D
E. Only A
- If a group of 3 men can complete a work in 6 hours less than the time taken by a group of 2 women. Which of the following given ratio of their efficiency can give us the value of time in positive number.
A) 6: 5
B) 2: 3
C) 5: 2
D) 8: 5

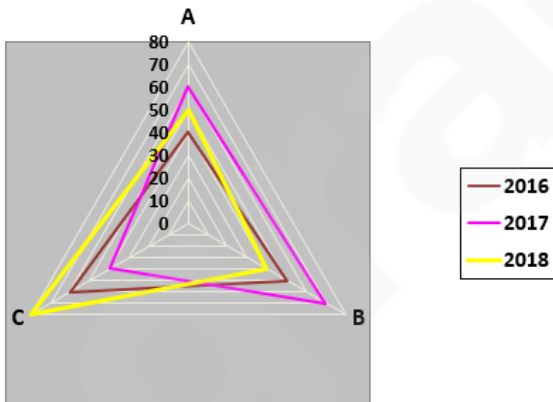
- A. A only B. A and B only
C. B C and A only D. A C and D
E. B and D only
- Ram marks the price of a chair 60% above his cost price and gives a discount of X%, in this process he gain _____. If he gives discount of 2X%, then the profit percentage will be _____. Which of the following values can we fill in the same order?
A) 30, 20
B) 20, 40
C) 60, 30
D) 40, 20
A. A and D only B. A, B and C only
C. B only D. D only
E. A, B, C and D
- In the following question, three quantities are given. On solving them, we get three values respectively. Based on that, find the relation between them in the following codes
@ for >
\$ for <
& for >=
! for <=
for F (if the value cannot be determined)
For example: If $Q_1 = 4$, $Q_2 = 3$ and $Q_3 = 9$, means $Q_1 > Q_2 < Q_3$, then choose @ \$
Quantity 1 -
 $4.5m^9n^7 \div m^6n^3 * m^5n^2$, where $m < 0$ and $n < 0$
Quantity 2
 $5 * X^6Y^5 \div X^2Y^1 \div 5.6X^1Y^2$, where $X > 0$ and $Y < 0$
Quantity 3 -
 $6.3 * P^9Q^7 \div P^5Q^2$, where $P < 0$ and $Q < 0$
A. @ , & B. #, \$
C. #, @ D. @ , !
E. &, \$
- A's investment is half of the initial investment of B. B withdraws his money after 4 months. C joins the business after B left but not in the same month. C joins with amount X, if profit of A and C is same and B's initial investment was 2400 then which is the positive value of X?
A) 1800
B) 7200
C) 3600
D) 1200
E) 5400
A. A and B only B. C and B only
C. B, E and A only D. B, E and D
E. A, B, C and D



8. A mixture contains 200 litres Milk and 40 litres water, _____ litres of mixture are removed and _____ litres of pure water were added to it. If the final quantity of milk is 124 litres more than the final quantity of water. Which of the following values can we fill in the same order?
- a) 30, 20
b) 18, 24
c) 24, 20
d) 36, 16
- A. A and B only B. C and B only
C. B, D and A only D. B, C and D
E. A, B, C and D
9. 1, 3, 9, 31, 129
5, __, __, __, ?
A. 132 B. 225
C. 243 D. 1080
E. 532
10. 4, 2, 2, 3, 6, 15,, 2835
If 2835 is nth term then find the value of n
A. 11 B. 10
C. 9 D. 8
E. 13

Direction (11-13): Study the following graph carefully and answer the given questions.

The graph shows the percentage of Executives working in three different departments of a company in three different years.



11. In deptt. B, total executives in the year 2016, 2017 and 2018 ratio is 2: 3: 5 and the average number of total executives in 2003, 2008 and 2013 is 1700. Find the no. of employees of B in the year 2008?
- A. 4500 B. 5000
C. 3000 D. 1500
E. 3600

12. In deptt. C, number of executives in the year 2016 is 600 less than 2017 and the number of executives in the year 2018 is 200 more than 2016. Find the total employees of deptt. C in the year 2017 if the total employees in the year 2016, 2017 and 2018 in deptt. C is 9800?
- A. 8000 B. 6000
C. 5000 D. 9000
E. 6400
13. If the no of executives working in the year 2016 in deptt C is equal to the number of executives working in deptt. A in year 2018, and the no. executives in deptt. B in year 2018 is 100 % more than that in deptt. A in the same year. Then how much percent more or less is the no of employees working in deptt. B to those working in deptt C.
- A. 125% B. 275%
C. 100% D. 55%
E. 175%

Direction (14-17): Read the following passage carefully and answer the given questions

There is an apartment with 60 flats, the water supply (24 hours) to the apartment is provided from the nearby reservoir which has a capacity of 60000 litres. The reservoir gets only filled when it becomes fully empty.

In November: 50% of flats were occupied and each flat uses 25 litres/hr. If the tank was empty at the starting of the month, then the reservoir should be filled **(A)** times in the end of November.

In December: 75% of the flats were occupied and after every 100 hrs the reservoir tank is filled. Then rate of tank filled per hour in November is **(B)** percentage more than the rate of tank filled per hour in December.

In January: Each flat consumed same amount of litres per hour as in December and takes 125 hrs to empty a completely filled reservoir, then in January, **(C)** flats were occupied.

Note: The vacant flats never use any quantity of water.

14. Find the in the place of **(A)**
- A. 7 B. 8
C. 9 D. 5
E. 6



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15. Find the in the place of **(B)**

- A. $14\frac{2}{3}\%$ B. $87\frac{1}{2}\%$
 C. $57\frac{1}{7}\%$ D. $62\frac{1}{2}\%$
 E. $28\frac{2}{7}\%$

16. Find the in the place of **(C)**

- A. 36 B. 26
 C. 24 D. 30
 E. 28

17. If in February (28 days), the tank capacity was increased by 20% but the tank was filled upto 80% of its new capacity, then what percent of total flats was occupied, if the reservoir tank was re-filled 7 times in the month & per hour water consumption of water per flat was 24 ltrs.

- A. $41\frac{2}{3}\%$ B. $77\frac{1}{2}\%$
 C. $28\frac{2}{7}\%$ D. $62\frac{1}{2}\%$
 E. $57\frac{1}{7}\%$

Direction (18-19): Each question contains a statement followed by Quantity I, II and III. Read the information clearly and answer your questions accordingly.

The options represent the relations between these three quantities

- (A) >
 (B) <
 (C) =
 (D) ≤
 (E) ≥

For example:

Quantity I = 200

Quantity II = 300

Quantity III = 100

Hence, Quantity I < Quantity II >

Quantity III

- (A) A, B (B) B, C
 (C) B, A (D) E, B
 (E) B, D

Answer is option: (c)

18. **Quantity I:** Value of A, If the interest received by Rama invested Rs. A in simple interest for 2 years at the rate of R% per annum is 20 less than the interest received by

him the same sum invested him in simple interest for 2 years at the rate of (R+5)% per annum.

Quantity II: Value of B, If Shyam invested Rs. B in compound interest for two years at the rate of 10% per annum is 68 less than the compound interest received by him invested the sum of Rs.250 for 2 years at the rate of 20% per annum compounded annually.

Quantity III: Value of C, If Ramu invested Rs. C in simple interest for 2 years at the rate of 10% per annum and gets Rs.2.5 less interest than the interest received in the same sum invested in compound interest for same period at the same rate of interest

- A. A), C) B. C), B)
 C. C), D) D. D), E)
 E. None of these

19. Amit and Chetan together can do a piece of work in 24 days. Bhuvan and Chetan together can do the same work in 20 days. Chetan can complete the same work in 60 days. After Amit has worked for 10 days, and then Bhuvan for 10 days, time taken by Chetan to complete the remaining job is x days.

Quantity I: Dalai Lama alone can do the same of work in x days and Jinping can do the same work in (x-5) days. Find the number of days taken by Dalai Lama and Jinping together complete the whole work.

Quantity II: Phunsukh can do the same work in 30 days and Wangdu can do the same work in (x+5) days. Find the number of days taken by Phunsukh and Wangdu together completes the whole work.

Quantity III: Value of x .

- A. B), C) B. C), D)
 C. A), B) D. B), B)
 E. E), A)

20. The width of a path of rectangular park is 2 mtrs. If the external length of park decreases by 4 mts, it converts into a square. If Area of path $\times \frac{4}{3}$ = Area of rectangular park (Path included). Which of the following can be deduced wrt the given information:

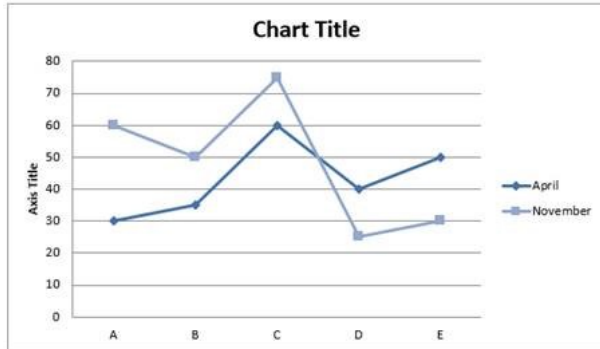
- A) Area of the path.
 B) Area of internal rectangular path.
 C) Area of circle inscribed in square.
 D) Area of square formed by decreasing the length of rectangular path.
 A. Only A B. Only B
 C. Only A, B, C D. Only B & C
 E. All of the above



Direction (21-23): Study the following graph carefully and answer the given questions.

The line graph shows the percentage of expenditure of five different persons in two different months.

Monthly income = Monthly Expenditure + Monthly savings



21. What is the monthly income of A in the month of November?

Statement I: The difference between monthly savings of A in November and April is 20% of A's monthly income in April

Statement II: Monthly savings of B in November is 40% of monthly savings of A in April

- A. Statement I is sufficient to answer the question.
 B. Statement II is sufficient to answer the question.
 C. Either Statement I or statement II is sufficient to answer the question.
 D. Neither Statement I nor statement II is sufficient to answer the question.
 E. Both Statements I and II are necessary to answer the question.

22. Find the difference between the monthly income of C in April and November
Statement I: The difference between the monthly savings of C in April and November is 12000.

Statement II: The difference between the monthly expenditure of C in April and November is 10000.

- A. Statement I is sufficient to answer the question.
 B. Statement II is sufficient to answer the question.
 C. Either Statement I or statement II is sufficient to answer the question.
 D. Neither Statement I nor statement II is sufficient to answer the question.
 E. Both Statements I and II are necessary to answer the question.

23. If D spends 30% of monthly income in November in mutual funds, then find the amount spend by D in November in mutual funds

Statement I: D's income in November is 30% more than the C's income in April.

Statement II: C's monthly savings in April is Rs.4800 which is 40% of his monthly income.

- A. Statement I is sufficient to answer the question.
 B. Statement II is sufficient to answer the question.
 C. Either Statement I or statement II is sufficient to answer the question.
 D. Neither Statement I nor statement II is sufficient to answer the question.
 E. Both Statements I and II are necessary to answer the question.



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