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IBPS Clerk Mains Exam 2022

50 Most Important Quant Questions

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Direction (1-5): What will come in place of question mark (?) in the given number series?

1. 0.4, 2.4, **?**, 27.4, 114.6, 579

A. 6.4 B. 4.2
C. 8.3 D. 7.8
E. 7.5

2.7, 42, 504, **?,** 217728, 6531840

A. 10080 B. 9072
C. 6048 D. 3024
E. 5086

3.4.5 ,7 ,18 , **?**, 335, 2004

A. 76 B. 64
C. 72 D. 68
E. 70

Direction: What should come at the place of question mark (?) in the following number series?

4. 9496, ?, 8586, 7767, 6538.5, 4695.75

A. 9530 B. 9215
C. 9369 D. 9420
E. 9132

Direction: What will come in place of the question mark (?) in the following number series?

5. 3, 4, 8, 17, 33, 58, ?

A. 86 B. 94
C. 98 D. 78
E. 88

Direction (6-10): What will come in place of question mark in the following questions?

6. 250, ?, 190, 167, 148, 131,

A. 207 B. 219
C. 216 D. 227
E. 232

7.1, 244, 163, 190, 181, ?

A. 184 B. 189
C. 176 D. 175
E. 195

8.18, 8, 6, 9, 32, ?

A. 251 B. 252
C. 244 D. 324
E. 266

Direction: What should come at the place of question mark (?) in the following number series?

9. 11826, 3942, 1314, 438, ?

A. 142 B. 284
C. 346 D. 402
E. 146

Direction: What will come in place of the question mark (?) in

the following number series?

10. 9, 11, 15, **?,** 39, 71

A. 29 B. 23
C. 21 D. 27
E. 24

Directions (11-15): Find the wrong number in the given series as per in question.

11. 3, 4, 12, 45, 195, 1005

A. 1005 B. 4
C. 12 D. 195
E. 45

12.4, 6, 9, 31, 124, 601, 3599

A. 6 B. 9
C. 124 D. 31
E. 3599

Direction: In the following number series, a wrong number is given. Find out that wrong number.

13. 5, 6, 2, 13, - 5, 20, - 16

A. 6 B. - 5
C. 13 D. - 16
E. 20

Direction: The following number series has a wrong number in it. Find out that wrong number and mark your answer accordingly:

14. 2, 10, 32, 68, 130, 222

A. 2 B. 32
C. 130 D. 222
E. 68

Directions: Which term does not fit in the given series?

15. 2, 6, 16, 36, 78, 142, 236

A. 16 B. 36
C. 78 D. 142
E. 236

Directions : What approximate value will come in place of the question mark (?) in the following question? (You do not have to calculate the exact value).

16. 32^2- 24.995×12.002+15.997% of 485 = ?

A. 650 B. 920
C. 880 D. 800
E. 950

Direction: What approximate value should come in place of the question mark (?) in the following equation (Note: You are not expected to calculate the exact value)?

17. $\frac{802}{59} \div \frac{24.9}{643} \times \frac{119}{159} = ?$

A. 350 B. 260
C. 190 D. 175
E. None of these

Directions: What will come in the place of question mark (?) in the following question? (You do not have to calculate the exact value).

18.

1124.99% of 1501 – 1265.01% of 399 = ?

A. 13840 B. 13200
C. 12500 D. 11815
E. 12215

Direction: What approximate value should come in place of the question mark (?) in the following equation (Note: You are not expected to calculate the exact value)?

19. 5999 ÷ 60.004 × 84.997 = ? × 24.998

A. 300 B. 320
C. 335 D. 340
E. 345

Direction: What should come in place of question mark (?) in the following question? (You do not have to calculate the exact value.)

20. 629.929 + 29.972 × 20.891 – 45.951 =?

A. 2700 B. 1590
C. 1214 D. 2550
E. 1573

Direction: Two equations (I) and (II) are given in each question. On the basis of these equations you have to decide the relation between 'x' and 'y' and give answer.

21. I. $x^2 - 9x + 20 = 0$
II. $2y^2 - 15y + 28 = 0$

A. x > y B. x < y
C. x ≥ y D. x ≤ y
E. x = y or no relation can be established

Direction: In the following question, there are two equations. Solve the equations and answer accordingly:

22. I. $3x^2 + 4x - 4 = 0$
II. $3y^2 - 11y + 6 = 0$

A. x > y B. x ≥ y
C. x < y D. x ≤ y
E. x = y or the relationship cannot be established

Direction: In the following question, there are two equations. Solve the equations and answer accordingly:

23. $\sqrt{(x + 20)} = \sqrt{256} - \sqrt{121}$
$y^2 + 584 = 705$

A. x>y B. x<y
C. x≥y D. x≤y
E. x=y OR No relation can be established(CND)

Direction: In the following question, there are two equations (I) and (II). Solve the equations and answer accordingly:

24. 14x - 25 = 59 - 7x
$13y^2 + 12^2 = 14^2$

A. $x > y$ B. $x < y$
C. $x \geq y$ D. $x \leq y$
E. $x = y$ or no relation can be established

Directions: In the following question two equations numbered I and II are given. You have to solve both the equations and answer the question.

25. **I.** $X^2 + 17X + 30 = 0$
II. $Y^2 + 5Y - 6 = 0$

A. X > Y B. X ≥ Y
C. Y > X D. Y ≥ X
E. X = Y OR the relationship cannot be established

Direction: The question given below has few statements along with it. You have to determine which of the statement/s is/are sufficient/necessary for answering the question and mark your answer accordingly:

26. A and B finish 3/4th of a specific piece of work in 6 hours. How much time does A take to finish the work?
I. B finishes the work in 10 hours.
II. A and B together finish the work I 8 hours.

A. The question can be answered by using statement I alone but cannot be answered using the other statement alone.
B. The question can be answered by using statement II alone but cannot be answered using the other statement alone.
C. The question can be answered by using either of the statement alone.
D. The question can be answered using both of the statements together, but cannot be answered using either of the statement alone.
E. The question cannot be answered even by using both the statements together.

Direction: In each of the following questions below consists of a question and two statements numbered I and II given below it. You have to decide whether the data provided in the statements are sufficient to answer the question. Read both the statements and give answer:

27. How many students appeared for the examination?
Statement I: Only 40% of the students passed the examination

Statement II: if 20 more students passed, the percentage of students failed would have been 58%

A. If the data in statement I alone is sufficient to answer the question, while the data in statement II alone is not sufficient to answer the question
B. If the data in statement II alone is sufficient to answer the question, while the data in statement I alone is not sufficient to answer the question
C. If the data either in statement I alone or in statement II alone is sufficient to answer the question
D. If the data in both statements I and II together are necessary to answer the question
E. If the data given in both statements I and II together are not sufficient to answer the question.

28.Two trains A and B are moving in opposite directions. Length of train B is 40% more than the length of train A. find the time taken by trains to cross each other.
Statement I: Train A of length 'x' meter crosses a pole and a platform of length 'x+100' meter in 6 seconds and 16 seconds respectively.
Statement II: Train B of length 'y' meter crosses a pole and a platform of length 'y+60' meter in 7 seconds and 16 seconds respectively.

A. If the data in statement I alone is sufficient to answer the question, while the data in statement II alone is not sufficient to answer the question

B. If the data in statement II alone is sufficient to answer the question, while the data in statement I alone is not sufficient to answer the question
C. If the data either in statement I alone or in statement II alone is sufficient to answer the question
D. If the data in both statements I and II together are necessary to answer the question
E. If the data given in both statements I and II together are not sufficient to answer the question.

Direction: Each question below is followed by two statements I and II. You have to determine whether the data given in the statement is sufficient for answering the question. You should use the data and your knowledge of Mathematics to choose the best possible answer.

29. What is the speed of the stream?
Statement I. The ratio of speed upstream to downstream of a boat is 3:4
Statement II. The distance travelled upstream in 3 hours by the boat is more than the distance travelled by it downstream in 2 hours by 5 km

A. I alone B. II alone
C. Either I alone or II alone
D. Both I and II
E. Both I and II are not sufficient

Direction: Each question below is followed by two statements I and II. You have to determine whether the data given in the statement is sufficient for answering the question. You should use the data and your knowledge of Mathematics to choose the best possible answer.

30. An amount of money was lent for 4 years. What will be the difference between the simple and compound interest earned on it at the same rate?
I. The rate of interest is 10% p.a.
II. The total simple interest is Rs.1500

A. I alone
B. II alone
C. Either I alone or II alone
D. Both I and II
E. Both I and II are not sufficient

Direction: Each question below contains a statement followed by Quantity I and Quantity II. Find both to find the relationship among them. Mark your answer accordingly**.**

31. **Quantity I** — The distance of school from Aman's house if he reaches school 5 minutes late while walking at 4 km/hr but 10 minutes earlier than scheduled time walking at 5 km/hr.

Quantity II — 5 km

A. If Quantity I >Quantity II
B. If Quantity I < Quantity II
C. If Quantity I $\geq$ Quantity II
D. If Quantity I $\leq$ Quantity II
E. If Quantity I = Quantity II or no relation can be established

Direction: In the following questions two quantities are given . You are required to calculate the value in the quantity and compare them. According to the comparison kindly mark your answer.

32. **Quantity I:** A sum of money becomes Rs. 704 in 2 years and Rs.800 in 5 Years then the principal is.
Quantity II: A sum of money was invested for 3 years at SI and if it been invested at 4 % higher rate then it would fetched Rs.480 more then the principle is.

A. Quantity I > Quantity II
B. Quantity I ≥ Quantity II
C. Quantity II > Quantity I
D. Quantity II ≥ Quantity I
E. Quantity I = Quantity II or Relation cannot be established

Direction: Given below are two quantities named I and II. Based on the given information, you have to determine the relation

between the two quantities. You should use the given data and your knowledge of Mathematics to choose among the possible answers.

33. Quantity I: Average age of 40 students of a class is 16. When five new students joined the class, the average remains same. Find the average age of new students.
Quantity II: Age of three members of a family is in the ratio 2: 3: 5. What is the average age of all the three members if age of first member is 22 years?

A. Quantity I > Quantity II
B. Quantity I < Quantity II
C. Quantity I = Quantity II
D. Quantity I ≤ Quantity II
E. None of these

Direction: Each question below contains a statement followed by Quantity I and Quantity II. Find both to find the relationship among them. Mark your answer accordingly.

34. Quantity 1: Present age of father. Father's age is 4 times that of his son. 5 years back, it was 7 times.
Quantity 2: Present age a man. Fifteen years hence, a man will be four times as old as he was fifteen years ago.

A. Quantity 1 < Quantity 11
B. Quantity1 = Quantity 11 or No relation
C. Quantity 1 ≥ Quantity 11
D. Quantity 1 > Quantity 11
E. Quantity 1 ≤ Quantity 11

Direction: Given below are two quantities named I and II. Based on the given information, you have to determine the relation between the two quantities. You should use the given data and your knowledge of Mathematics to choose among the possible answers.

35. **Quantity I**: cost paid by an Eskimo to make a hemispherical igloo with a sheet of canvas. Base radius of the tent = 7m and cost of canvas = Rs. 25/sq.m.
Quantity II: Total of A's and B's shares. An amount is to be distributed amount A,B and C in the ratio 3 : 1 : 5. The difference between B's and C's shares is Rs. 3600.

A. Quantity I = Quantity II or No relation
B. Quantity I > Quantity II
C. Quantity I ≥ Quantity II
D. Quantity I < Quantity II
E. Quantity I ≤ Quantity II

36.Pinku and Rumi started a business by investing Rs 2000 and Rs 2800 respectively. After 8 months, Pinku added Rs 600 and Rumi added Rs 400. At the same time Rani joined them with Rs

4200. Find the share of Rani if they get a profit of Rs 34,300 after a year.

A. Rs.7000 B. Rs.7350
C. Rs.7800 D. Rs.8800
E. None of these

37.The ratio of two numbers is $1\frac{1}{2} : 2\frac{2}{3}$. If each of the number is increased by 10 the ratio becomes $1\frac{2}{3} : 2\frac{1}{2}$. The bigger number is

A. 46 B. 48
C. 40 D. 32
E. 50

38.3 container A,B,C having mixtures of milk and water of 1:5,3:5,5:7 respectively. If the capacitates of the containers are in the ratio of 5:4:5 then ratio of milk to water is (Mixture of all three containers are mixed together)

A. 53:115 B. 51:119
C. 121:213 D. 219:179
E. None of these

39.The present age of a father is 10 years more than the thrice of the present age of his son. After how many years will the father become thrice as old as the son's age at that time?

A. 4 B. 5
C. 8 D. 10
E. 9

40.X sold the chair to A which he sold to B at a profit of 25 % and B sold it C for Rs.300 and makes 20 % profit then find the price at which the X bought the chair and he makes a profit of 25% on it?

A. Rs.200 B. Rs.160
C. Rs.250 D. Rs.140
E. Rs.320

41.Ram makes half as long to do a piece of work as Mohan takes, and if Sohan does it in the same time as Ram and Mohan together and if all three working together would take 7 days, how long would each take separately?

A. 20,35,16
B. 35, 45, 20
C. 21, 42, 14
D. 20, 25, 14
E. none of these

42.A group of men started work and aimed to finish the same in 12 days. After 4 days, 8 men left. The remaining men finished the work in 12 more days. How many men were there in the group initially?

A. 30 B. 24
C. 15 D. 28
E. 20

43.A tank has two pipes to fill water in it. One of the pipes fills water at the rate of 100 liters per hour. The other pipe fills the tank in 6 hours. When both the pipes are working the tank is filled in 4.2 hours. What is the capacity of the tank?

A. 1200 B. 1500
C. 1400 D. 1440
E. 1550

44.While walking at 4 km/hr, an officer reaches her office from house, 5 minutes late. If she walks at 5 km/hr, she will be $2\frac{1}{2}$ minutes early. Determine the distance between her office and home.

A. 2.5 km B. 2 km
C. 3 km D. 5 km
E. None of these

45.Train A crosses train B in 36 seconds running in the same direction. Ratio between speed (in km/h) of train A and B is 3:2 and length of train A and B is 160 meters and 200 meters respectively. If train B crosses a 300 meters long platform in T seconds and train A crosses a bridge (T+3) seconds. Find the length of the bridge?

A. 700 meters
B. 620 meters
C. 680 meters
D. 800 meters
E. 900 meters

46.Speed of motorboat in still water in 75 kmph. If the motorboat travels 125 km along the stream in 1 hours 15 minutes, then the time taken by it to cover the same distance against the stream will be

A. 3 hours
B. 2 hours 15 minutes
C. 2 hours 40 minutes
D. 2 hours 30 minutes
E. None of these

47.A woman with the sum of Rs2602 wants to deposit this sum into the bank account of her two daughters so that both will get equal money after 5 years and 7 years respectively at the rate of 4% compounded annually. Find the part of amount deposited into the account of the first daughter.

A. Rs1352 B. Rs1200
C. Rs1500 D. Rs1301
E. None of these.

48.A bag contains 6 red balls and 7 white balls. Another bag contains 5 red balls and 3 white balls. One ball is selected from each. Find the probability that one ball is red and one is white?

A. 53/104 B. 47/104
C. 63/104 D. 51/104
E. 59/104

49.Nine persons went to a hostel for taking their meals. Eight of them spent Rs.12 each over their meals and the ninth spend Rs.8 more than the average expenditure of all the nine. Total money spent by them was:

A. 114
B. 125
C. 126
D. 117
E. None of these

50.Raju and Sanju are partners in a business. They invest in the ratio 4 : 5, but at the end of 7 months Raju gives up his share of the business. If they receive profits in the ratio of 7 : 11, find how long Sanju invested the money?

A. 8
B. $6\frac{3}{4}$
C. $8\frac{4}{5}$
D. $8\frac{1}{2}$
E. 11

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