
IBPS PO Preliminary Model Paper

Quantitative Aptitude

Directions (Q. 1-10): What should come in place of the question mark (?) in the following questions?

- $(6)^3 \times (9)^2 \div 18 = ?$
a) 1458 b) 972 c) 8748 d) 162 e) None of these
 - $\sqrt[3]{941192} = ?$
a) 101 b) 98 c) 96 d) 99 e) None of these
 - $999 \times 99 \times 9 = ?$
a) 891009 b) 890019 c) 890190 d) 890109 e) None of these
 - $7410 + ? \square 3652 \square 1479 = 11820$
a) 9451 b) 9527 c) 9441 d) 9541 e) None of these
 - 32% of $860 \times ? = 61920$
a) 252 b) 255 c) 215 d) 205 e) None of these
 - $963 \times 874 = ?$
a) 840788 b) 843588 c) 839736 d) 842536 e) None of these
 - $\sqrt{12544} \div 64 \times ? = 43.75$
a) 30 b) 15 c) 25 d) 40 e) None of these
 - $444 \div (16 \times 1.5) = ?$
a) 41.625 b) 222 c) 18.5 d) 185 e) None of these
 - $(16)^9 \div (16)^4 \times (16)^3 = (16)^?$
a) 6.75 b) 8 c) 10 d) 12 e) None of these
 - $0.08 \times ? \times 2.5 = 1.12$
a) 6.5 b) 6.6 c) 5.5 d) 5.6 e) None of these
 - The population of a town is 198000. It increases by 7% in the 1st year and decreases by 5% in the 2nd year. What is the population of the town at the end of 2 years? What is the population of the town at the end of 2 years?
a) 211860 b) 201267 c) 222453 d) 198900 e) None of these
 - What should come in place of the question mark (?) in the following number series?
3 7 13 ? 31 43
a) 18 b) 19 c) 23 d) 21 e) None of these
 - If $x + y = 20$ and $xy = 84$; what is the value of $x^2 + y^2$?
a) 232 b) 400 c) 128 d) Cannot be determined e) None of these
 - In how many different ways can the letters of the word 'ABILITY' be arranged?
a) 5040 b) 720 c) 1260 d) 2420 e) None of these
 - The difference between a two digit number and the number obtained by interchanging two digits of the number is 9. The sum of the two digits of the number is 15. What is the product of two digits of two digit number?
a) 54 b) 72 c) 56 d) Can't be determined e) None of these
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IBPS Preliminary Model Paper

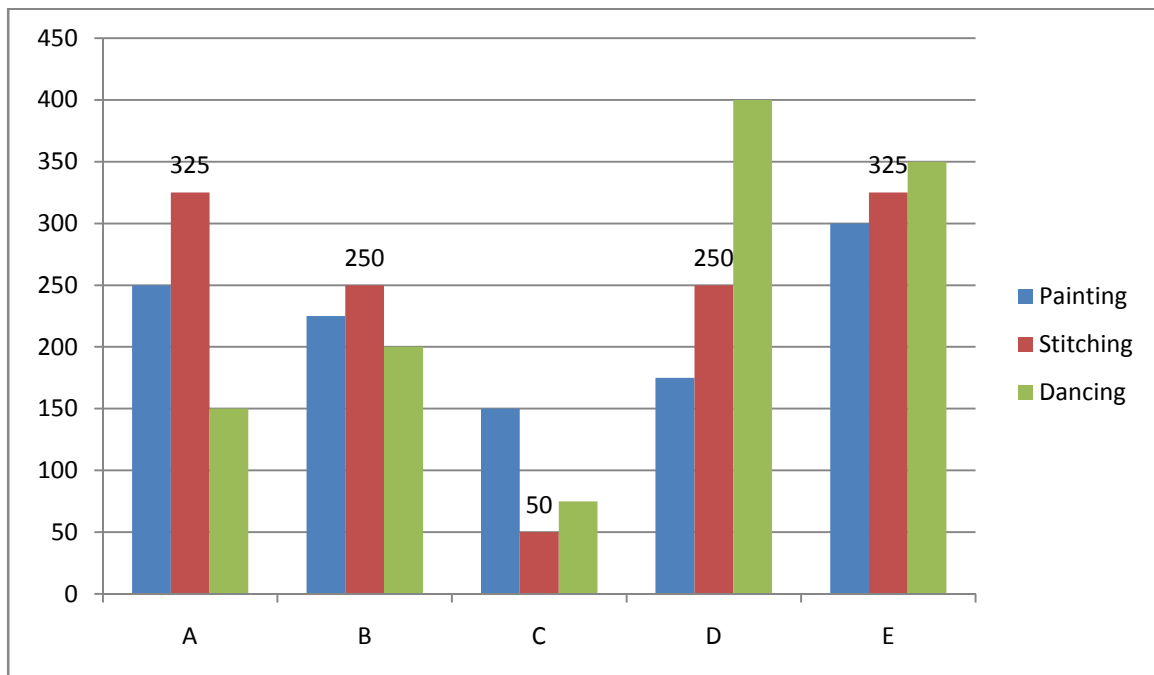
16. Vinita bought a watch with 24% discount on the selling price. If the watch cost her Rs.779. What is the original selling price of the watch?
a) Rs.1000 b) Rs.950 c) Rs.1040 d) Can't be determined e) None of these
17. Shyam invests an amount of Rs.5690 at the rate of 5% per annum for 3 years. What approximate amount of compound interest will be obtain at the end of 3 years?
a) Rs.854 b) Rs.799 c) Rs.843 d) Rs.787 e) Rs.897
18. Samantha, Jessica and Roseline begin to job around a circular stadium. They complete their revolutions in 84 s, 56 s and 63 s respectively. After how many seconds will they be together at the starting point?
a) 336 b) 504 c) 252 d) Can't be determined e) None of these
19. Asmita invests an amount of Rs.9535 at the rate of 4% per annum to obtain a total amount of Rs.11442 on simple interest after a certain period. For how many years did she invest the amount to obtain the total sum?
a) 10 years b) 2 years c) 5 years d) 4 years e) None of these
20. The cost of 13 kg of sugar is Rs.195. The cost of 17 kg of rice is Rs.544 and the cost of 21 kg of wheat is Rs.336. What is the total cost of 21 kg of sugar, 26 kg of rice and 19 kg of wheat?
a) Rs.1461 b) Rs.1306 c) Rs.1500 d) Rs.1636 e) None of these
21. What approximate value should come in place of the question mark (?) in the following question?
 $\sqrt{876} \times 20.6 + 165.34 = ?$
a) 700 b) 686 c) 775 d) 846 e) 745
22. The product of two consecutive even numbers is 16128. Which is the larger number?
a) 132 b) 128 c) 124 d) 126 e) None of these
23. A sum of money is to be divided equally amongst A, B and C in the respective ratio of 3 : 4 : 5 and another sum of money is to be divided between E and F equally. If F got Rs.1050 less than A, how much amount did B receive?
a) Rs.750 b) Rs.2000 c) Rs.1500
d) Can't be determined e) None of these
24. Find the average of the following sets of scores.
178, 863, 441, 626, 205, 349, 462, 820
a) 505 b) 441 c) 349 d) 493 e) None of these
25. The difference between 38% of a number and 24% of the same number is 135.10. What is 40% of that number?
a) 394 b) 370 c) 378 d) 386 e) None of these
26. 16 men can complete a piece of work in 8 days. In how many days can 12 men complete the same piece of work?
a) 10 b) 9-1/3 c) 10-2/3 d) Can't be determined e) None of these
27. Kishan has some hens and some cows. If the total number of animal heads are 59 and the total number of feet are 190. How many cows does Kishan have?
a) 36 b) 32 c) 23 d) Can't be determined e) None of these
28. If the numerator of a fraction is increased by 200% and the denominator is increased by 160%, the resultant fraction is 7/13. What is the original fraction?
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IBPS Preliminary Model Paper

- a) 7/15 b) 2/15 c) 8/15 d) 5/7 e) None of these
29. If 41^2 is added to the square of a number the answer, so obtained is 7457. What is the number?
a) 76 b) 63 c) 81 d) 82 e) None of these
30. What is the least number to be added to 4700 to make it a perfect square?
a) 74 b) 69 c) 76 d) 61 e) None of these

Directions (Q. 31-35): Study the graph carefully to answer the questions that follow:

Number of girls enrolled in different hobby classes in various institutes in a year



31. What is the respective ratio of total number of girls enrolled in Painting in the Institutes A and C together to those enrolled in Stitching in the Institutes D and E together?
a) 5 : 4 b) 5 : 7 c) 16 : 23 d) 9 : 8 e) None of these
32. Number of girls enrolled in Stitching in Institute B forms approximately, what percent of the total number of girls enrolled in Stitching in all the Institutes together?
a) 29 b) 21 c) 33 d) 37 e) 45
33. What is the respective ratio of total number of girls enrolled in Painting, Stitching and Dancing from all the Institutes together?
a) 44 : 48 : 47 b) 43 : 47 : 48 c) 44 : 47 : 48 d) 47 : 48 : 44 e) None of these
34. Number of girls enrolled in Dancing in Institute A forms, what percent of total number of girls enrolled in all the hobby classes together in that institute? (Rounded off to two digits after decimal)
a) 23.87 b) 17.76 c) 31.23 d) 33.97 e) 20.69
35. What is the total number of girls enrolled in Painting from all the institutes together?
a) 1150 b) 1200 c) 1275 d) 1100 e) None of these
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IBPS PO Preliminary Model Paper

- a) Musical instruments
 - b) Classical singer
 - c) Words
 - d) Film
 - e) Drama
54. Four of the following five are alike in a certain way and so form a group. Which is the one that does not belong to that group?
- a) Brother
 - b) Grand father
 - c) Mother
 - d) Grand mother
 - e) Father
55. Four of the following five pairs are alike in a certain way and so form a group. Which is the one that does not belong to that group?
- a) RICE:ECIR
 - b) WINGS:SGNIW
 - c) SMART:RTSMA
 - d) COUSIN:SINCOU
 - e) BRAKE:AKRFB

Directions (Q. 56-60) Study the following information to answer the given questions.

- (A) Six plays are to be organized from Monday to Sunday-One play each day with one day when there is no play. 'No play' day is not Monday or Sunday.
 - (B) The plays are held in sets of 3 plays each in such a way that 3 plays are held without any break i.e., 3 plays are held in such a way, that there is no 'No play' day between them but immediately before this set or immediately after this set it is 'No play' day.
 - (C) Play Z is held on 26th and play X was held on 31st of the same month.
 - (D) Play B was not held immediately after play A (but was held after A, not necessarily immediately) and play M was held immediately before Q'.
 - (E) All the six plays were held in the same month.
56. Which play was organized on Monday?
- a) Z
 - b) M
 - c) Q
 - d) Can't be determined
 - e) None of these
57. Which day was play Z organized?
- a) Tuesday
 - b) Monday
 - c) Wednesday
 - d) Can't be determined
 - e) None of these
58. Which date was a 'No play' day?
- a) 26th
 - b) 28th
 - c) 29th
 - d) Can't be determined
 - e)
59. Which of the following is true?
- a) Play B is held immediately before play M
 - b) Play Z is held after play B
 - c) There was a gap after 2 plays and then 4 plays were organized
 - d) First play was organized on 25th
 - e) Play B was held on Friday
60. Which day was play Q organized?
- a) Friday
 - b) Wednesday
 - c) Saturday
 - d) Can't be determined
 - e) None of these

Directions (Q. 61-65) Study the following information to answer the given questions.

IBPS PO Preliminary Model Paper

69. **Statement:** In order to build more space, extra FSI needs to be bought.

Assumptions:

- I. The person being told does not know the meaning of FSI.
- II. More space will reduce the construction cost.

70. **Statement:** Let there be a sign-board also indicating the directions and instructions.

Assumptions:

- I. Sign-board can be prepared without using any language.
- II. Sign-board is the only effective tool to indicate directions.