IBPS POs Prelims Grand Test

No. of Questions: 100 **Max. Marks: 100** **Time: 60 min**

[Each Question carries 1 mark. For each incorrect response, 0.25 mark will be deducted]

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Directions (56-58): Study the following information carefully and answer the questions given below:

Arya starts at point P walks for 8m and takes a right turn and walks for 10m again he takes a left turn and walks for 3m to reach point R and now he is facing east. Aarav starts from point Q walks for 10m and takes a left turn and walks for 8m and takes a left turn and walk 6m and then takes a right turn and walks for 2m and finally takes a left turn and walks for 2m and reach point S and now he is facing south direction.

(Note: Point S is 2m north of point R.)

56. In which direction Arya start walking initially?
1) North-west 2) South-east
3) North 4) South-west
5) East

57. In which direction Aarav start walking initially?
1) North-west 2) South-east
3) North 4) South-west
5) North-east

58. What is the distance between the points from where Arya takes his first turn and Aarav takes his second turn?
1) 6m 2) 8m 3) 5m
4) 16m 5) 21m

59. How many such digits are there in the number '7348265' each of which remains in its original position when all the digits are arranged in ascending order within the number from left to right?
1) None 2) 1 3) 3
4) 2 5) 4

60. In a row of 27 students, P is 16th from the left end and Q is 13th from the right end. All of them are facing north. How many students sit between them?
1) One 2) Two
3) Three 4) No one
5) Cannot be determined

Directions (61-65):There are five 4-digit numbers as given below:

4156 3783 3387 2322 5673

(Counting of digits is done from left to right)

61. If all the numbers are arranged in ascending order from left to right, then what is the product of the second digit of the numbers second from right and second from left?
1) 12 2) 3 3) 40
4) 10 5) 8

62. If in all the numbers, the first and the third digits are interchanged, then which of the following original number(s) will have its digits in descending order from left to right?
1) 4156 2) 3783 3) 2322
4) 5673 5) Both (b) & (d)

63. What is the sum of the largest digit of the smallest number and the smallest digit of the largest number?
1) 7 2) 9 3) 5
4) 6 5) None of these

64. If the sum of only the second, third and fourth digit of each number is taken into consideration then which number among the group will give the smallest sum?
1) 4156 2) 3783 3) 3387
4) 2322 5) 5673

65. If all the digits are arranged in descending order within the number, then the third digit of which of the following original numbers will be the highest?
1) 4156 2) 3783 3) 2322
4) 3387 55555) 5673

QUANTITATIVE APTITUDE

Q.No.(66-70): What value will come in place of question mark (?) in the following question?

66. 45% of $\sqrt{20736} + 15\%$ of $23^2 = ? + 401$
1) −264.85 2) −255.85
3) −250.85 4) −249.85
5) −256.85

67. $\sqrt{5776}\ \sqrt{5476} - 72^2 - \sqrt{169} = \sqrt{(?)} + 20^2 - \sqrt{36}$
1) 1225 2) 961 3) 1156
4) 900 5) 1089

68. 55% of $\sqrt{18496} + 95\%$ of $41^2 = ? + 286$
1) 1385.75 2) 1392.75
3) 1381.75 4) 1386.75
5) 1391.75

69. 104% of 200 + 46% of 350 + 64% of 550 − 56% of 650 = ?
1) 343 2) 357 3) 364
4) 389 5) 351

70. 58% of $\sqrt{3136} * 12 = ? + 25\%$ of $125 + 30\%$ of 240
1) 249.65 2) 271.52
3) 286.51 4) 298.54
5) 300.01

Q.No. (71–75): A question followed by 2 statements A and B below it. You have to decide whether the data provided in the statements are sufficient to answer the questions.

71. How many marks did Abhishek secure in English?
A) The average marks obtained by Abhishek in four subjects were 70.
B) The average marks obtained in Mathematics, English and Science were 75.
1) If the statement A alone sufficient to answer the question while the statement B alone is not sufficient to answer the question.
2) If the statement A alone is not sufficient to answer the question while the statement B alone is sufficient to answer the question.
3) If either of the statement A alone or B alone is sufficient to answer the question.
4) If both statement A and B together are necessary to answer the question.
5) If both statement A and B together are not sufficient to answer the question.

72. The area of a garden is 616 sqm. What is its perimeter ?
A) It costs Rs. 1760 to put a fence around the garden at the rate of Rs.20 per meter.
B) The garden is a circular one.
1) If the statement A alone sufficient to answer the question while the statement B alone is not sufficient to answer the question.
2) If the statement A alone is not sufficient to answer the question while the statement B alone is sufficient to answer the question.
3) If either of the statement A alone or B alone is sufficient to answer the question.
4) If both statement A and B together are necessary to answer the question.
5) If both statement A and B together are not sufficient to answer the question.

73. If the price of apples is Rs.40/kg, what is the maximum number of apples that can be bought for Rs.50?
A) A box of apples contains 5 kg apples.
B) When Abhi opens a box he finds 2 apples were missing and 5 were rotten apples.
1) If the statement A alone sufficient to answer the question while the statement B alone is not sufficient to answer the question.
2) If the statement A alone is not sufficient to answer the question while the statement B alone is sufficient to answer the question.
3) If either of the statement A alone or B alone is sufficient to answer the question.
4) If both statement A and B together are necessary to answer the question.
5) If both statement A and B together are not sufficient to answer the question.

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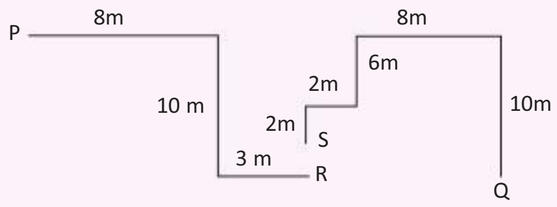
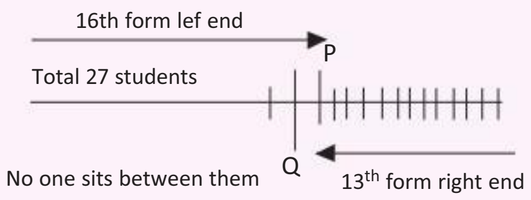
KEY WITH EXPLANATION

(56-58)



56. 5;
57. 3;
58. 3;
59. 4;
7 3 4 8 2 6 5
2 3 4 5 6 7 8
Clearly, only two digit remains at the same place

60. 4;



61. 2;
Numbers are arranged in ascending order from left to right
4156 3783 3387 2322 5673 becomes
2322 3**3**87 3783 4**1**56 5673
Product of the second digit of the numbers second from right and second from left is 3×1=3

62. 5;
After first and third digits are interchanged
4156 **3783** 3387 2322 **5673** becomes
5146 **8733** 8337 2322 **7653**

63. 4;
The smallest number is 2322 and the largest number is 5673
Hence, the required sum
= 3+3=6

64. 4;
4156 =12
3783 =18
3387 = 18
2322 = 7
5673 = 16

65. 5;
4156 3783 3387 2322 **5673** becomes
6541 8733 8733 3222 76**53**

66. 5;
$\frac{45*144+15\ \ 529}{100} = ? + 401$
$? = \frac{14415}{100} - 401 = 256.85$

67. 5;
$76^2 = 5776$,
$74^2 = 5476$,
$72^2 = 5184$,
$13^2 = 169$,
$20^2 = 400$, $6^2 = 36$
$\sqrt{(?)} = \sqrt{5776} * \sqrt{5476} - 72^2 - \sqrt{169} - 20^2 + \sqrt{36}$
$\sqrt{(?)} = 76 * 74 - 5184 - 13 - 400 + 6$
$\sqrt{(?)} = 33$ or ?
= 1089

68. 1;
$\frac{55*136+95\ \ 1681}{100} = ? + 286$
$? = \frac{167175}{100} - 286 = 1385.75$

69. 2;
? = 104 * 2 + 46 * 3.5 + 64 * 5.5 − 56 * 6.5
= 208 + 161 + 352 − 364 = 357

70. 3;
Required value
= 58% of 56 * 12 − 25% of 125 + 30% of 240 = 0.58 * 56 * 12 − 0.25 * 125 − 0.3 * 240 = 286.51

71. 5;
Nothing mentioned clearly about number of subjects.

72. 3;
From statement A:perimeter
$= \frac{1760}{20} = 88m$
From statement B:
$\frac{22}{7}\ r\ \ r = 616 \Rightarrow r = 14$
r = 14
$\Rightarrow$ perimeter $= 2\ \frac{22}{7}\ 14 = 88m$
Therefore either A or B is alone to solve.

73. 5;
In statement I, only the weight of apples inside a box is given. But it is not mentioned how many apples would make a kg (or 5kg).
In statement II, total number of apples are not mentioned.
Even after combining statements, as the total number of apples are not given, it can not be solved.