ನಾತ್ರಿ ವಿಧ್ಯ

sufficient to answer the ques-

IBPS POs Prelims Grand Test

20% on the cost. By how much No. of Questions: 100 Max. Marks: 100 Time: 60 min above the cost, should the [Each Question carries 1 mark. For each incorrect response, 0.25 mark will be deducted] products be labeled for sale? the question, while the data in Kushal. Akriti can harvest a field 1) 40% ನಿನ್ನ ಟಿ 'ವಿದ್ಯ' ತರುವಾಯ... statement I alone is not sufin 23 days. If Akriti and Kushal 4) 70% ficient to answer the question. work together, how much time **74.** What is the area of the square? 3) If the data either statement I I) The diagnol of square is 14 cm. will it take to harvest the whole II) Perimeter of the square is 4 alone or in statement II alone is field? times the diagonal of the 1) 12 sufficient to answer the question. 2) 13 3) 10 4) If the data in both the 4) 14 5) 15 square. statement I and II together are 1) Statement I alone is sufficient 79. The total CP of two watches A and B is Rs.840. If by selling A at but statement II alone is not not sufficient to answer the sufficient. question. a profit of 16% and B at a loss of 12%, there is no loss or gain in 2) Either statement I or statement 5) If the data in both the 1) 69 statement I and II together are the whole transaction, then the 4) 64 II alone is sufficient CP of watches A and B 3) both the statements I and II necessary to answer the respectively are: together are necessary question. **76.** Manjhi, the fisherman can row 5 4) statement II alone is sufficient 1) Rs.360, Rs.480 km downstream in the same time 2) Rs.480, Rs.360 but statement I alone is not as 3 km upstream. He rows his sufficient 3) Rs.380, Rs.460 boat to a place 30 km away and 4) Rs.400, Rs.440 5) Neighter statement I nor statement II are sufficient. back in 16 hours. What is his 5) None of the above speed in still water? **75.** What is the marked price of the 80. Tarun takes a loan of Rs.17080 1) 3.5 km/h 2) 4 km/h article? from Madhav to invest in a I) When a discount of 15% is 3) 4.5 km/h 4) 5 km/h startup business. He has to repay this in two equal annual given on marked price, the loss 5) 5.5 km/h 77. The area of a square is 196 sq. occurred is 20%. The cost installments. If the rate of price of the article is Rs.255. interest be 20% compound cm. whose side is double the annually, the value of each II) The marked price of the article radius of a circle. The circumference of the circle is equal to installment is- (approximate) is 30% above the cost price. 1) If the data in statement I alone breadth of a rectangle. If 1) Rs.12050 2) Rs.11890

perimeter of the rectangle is 164

2) 50% 3) 60% 5) 75% **82.** The average weight of a group of 7 men is 76 kg. when two men whose weights are 79 kg and 85 kg join the group and one man leaves group, the average weight of the group goes up by 2.75 kg. what is the weight of the man who left the group? 2) 71 3) 62 5) 66

- 83. 6 years ago, the ratio of Ram's age to his son's age was 5 : 1. 6 years later, the ratio of Ram's age to his son's age would be 7 : 3. What was Ram's age when his son was born?
 - 1) 22 years 2) 24 years
 - 4) 28 years 3) 26 years
 - 5) 30 years
- **84.** A and B entered into a partnership with Rs.1500 and Rs.2000 respectively. At end of 4 months A added some money which was 2/5th of his total contribution and at the end of 6 months B withdrew half of his capital. At the end of 8 months C

5) None of these

85. The ratio of the number of students studying in schools A, B and C is 6 : 8 : 7 respectively. If the number of students studying in each of the schools is increased by 20%, 15% and 20% respectively, what will be the new ratio of the number of students in schools A, B and C? 1) 18 : 23 : 21 2) 12 : 18 : 17 3) 18 : 21 : 17 4) Cannot be determined 5) None of these

(86–90)Study the below data and answer the questions that follow:

> Sales of various brands of soaps are given in Mumbai and Kolkata.

Sales of Various brands Sales of various brands of soaps in kolkata of soaps in Mumbai



- Total sales of soaps in Mumbai and Kolkata are 50 lakh and 40 lakh units respectively.
- 86. Which brand of soap had the least difference in the sales in the two cities?

tion, while the data in statement II alone is not sufficient to answer the question.2) If the data in statement II alone is sufficient to answer	 cm, what is the length of the rectangle 1) 27 cm 2) 38 cm 3) 44 cm 4) 41 cm 5) 32 cm 78. Akriti is 30% more efficient than 	 5) Rs.13430 81. A retailer allows a trade discount of 20% and a cash discount of 6.25% on the marked price of the products and gets a net profit of 	entered with a capital Rs.3500. After completion of one year, in what ratio will the profit divided? 1) 57 : 45 : 35 2) 13 : 9 : 7 3) 19 : 15 : 12 4) 6 : 3 : 2	1) Lux 2) Dove 3) Cinthol 4) Medimix 5) Pears බාරා ට්රා කිරි කර හා කර
2) If the data in statement II alone is sufficient to answer KEY WITH EXPLANATION 74. 1; From statement I: Area of the square = $\frac{1}{2} \times d^2$ Area = $\frac{1}{2} \times 14^2$ We can get the area form I alone. From II, The length of diagonal is not known. Hence, statement II alone is not sufficient to answer the question. Hence, statement I alone can answer the question. 75. 1; Let <i>x</i> be the price. From I, $x \times \frac{85}{100} = 255 \frac{80}{100}$ x = 240 From II, we cannot find the marked price. Only statement I is required. 76. 2; Let the time taken by Manjhi to row 5 km downstream and 3 km upstream be <i>x</i> hours	4) 41 cm 5) 32 cm 78. Akriti is 30% more efficient than $\Rightarrow 6x + 10x = 16 \Rightarrow x = 1$ $\therefore \text{ speed downstream} = 5 \text{ km/h}$ and speed upstream = 3 km/h $\Rightarrow \text{ speed in still water}$ $= \frac{5+3}{2} = 4 \text{ km/h}$ 77. 2; Side of square = 14 cm Radius of the circle $= \frac{14}{2} = 7 \text{ cm}$ Breadth of the rectangle = circumference of the circle $= 2 \frac{22}{7} = 7 = 44 \text{ cm}$ Length of the rectangle $= \frac{164}{2} - 44 = 38 \text{ cm}$ 78. 2; The portion Akriti can harvest a field in 1 day = $\frac{1}{23}$ Let the portion of field harvest here Kerkel in 1 day = 1	6.25% on the marked price of the products and gets a net profit of CP of 2 nd watch = $840 - x$ SP of 1 st watch = $\frac{116x}{100}$ [16% proft] SP of 2 nd watch = $\frac{88(840 - x)}{100}$ [12% loss] No loss/gain $\Rightarrow 840 = \frac{116x}{100} + \frac{88(840 - x)}{100}$ $\Rightarrow 840 \times 100 = 116x - 88x + 840$ $\times 88$ $\Rightarrow 84000 = 28x + 73920$ $\Rightarrow 28x = 84000 - 73920$ $\Rightarrow 28x = 10080$ $\Rightarrow \frac{10080}{28} \Rightarrow x = 360$ CP of 1st watch = 360 CP of 2nd watch = 840 - x = 840 - 360 = 480 80. 4; Let, the value of each installment be Rs. x, Then,	1) 57 : 45 : 35 2) 13 : 9 : 7 3) 19 : 15 : 12 4) 6 : 3 : 2 Trade price = 80 Price after cash discount = $80 \times 0.9375 = 75$ Therefoe, cost price = $\frac{75}{1.2} = 62.5$ Required percentage = $(100-62.5)$ $\frac{100}{62.5} = 60\%$ 82. 5; Initial weight of the group $76 \times 7 = 532 \text{kg}$ Now the group has 8 members hence total weight = $78.75 \times 8 = 630 \text{ kg}$ Suppose the weight of the person who left the group is w kg 532 - w + 79 + 85 = 630 w = 66 kg 83. 2; Let the present ages of Ram and his son be 'x' and 'y' Given that, (x=6) = 5	$ \textbf{auter 5363 acy c5}. $ $ \Rightarrow \text{Ram's age when his son was born = 36 - 12 = 24 $ 84. 2; Suppose after 4 months A added Rs. a $ (1500 + a) = \frac{2}{5} = a $ $ \Rightarrow a = 1000 $ Now the required ratio $ = (1500 \times 4 + 2500 \times 8) : (2000 \times 6 + 1000 \times 6) : (3500 \times 4) $ $ = 26000 : 18000 : 14000 $ $ = 13 : 9 : 7 $ 85. 1; Let the respective number of students be 6n, 8n and 7n. New number of students $ = 6 \times 1.2n, 8 \times 1.15n \text{ and } 7\times 1.2n $ $ = 7.2n : 9.2n : 8.4n $ $ = 72 : 92 : 84 $ $ = 18 : 23 : 21 $ $ (86-90) $
His speed downstream $\frac{5}{x}$ km/h and his speed upstream and his speed upstream $=\frac{3}{x}$ Given, he rows his boat to a place 30 km away and back in 16 hours $\therefore \frac{30}{5} + \frac{30}{3} = 16$	by Kushal in 1 day = n Or, n $\frac{130}{100} = \frac{1}{23}$ Or, n = $\frac{100}{23 \ 130} = \frac{10}{23 \ 13}$ Portion of the field harvested by Akriti and Kushal in 1 day $= \frac{1}{23} + \frac{10}{23 \ 13} = \frac{23}{23 \ 13} = \frac{1}{13}$ Akriti And Kushal harvest the whole field in 13 days 79. 1 ; Let the CP of watch 1 = Rs <i>x</i> .	$\begin{cases} \frac{x}{\left(1+\frac{20}{100}\right)} + \frac{x}{\left(1+\frac{20}{100}\right)^2} \\ = 17080 \\ \frac{5x}{6} + \frac{25x}{36} = 17080 \\ \frac{55x}{36} = 17080 \\ \text{Or, } 55x = 17080 \times 36 \\ \text{Or, } x = 11180 \\ \text{81. 3; Let the market price be 100} \\ \text{Trade discount} = 20\% \end{cases}$	$\frac{(x-6)}{(y-6)} = \frac{5}{1}$ $\Rightarrow x - 6 = 5y - 30$ $\Rightarrow x = 5y - 24 = 24Equation$ 1 Also, $\frac{x+6}{y+6} = \frac{7}{3}$ $\Rightarrow 3x + 18 = 7y + 42$ $\Rightarrow 3x = 7y + 24Equation 2$ Solving equations 1 and 2, we get: $x = 36$ and $y = 12$	SoapMumbaiKolkataLux 600000 600000 Dove 750000 500000 Cinthol 1000000 880000 Medimix 500000 680000 Pears 1250000 820000 Others 900000 520000 Total 5000000 4000000 86.1; Sales of Lux in Mumbai= sale of Lux in KolkataHence there is no difference in the sale

4) Rs.11180

3) Rs.14079

