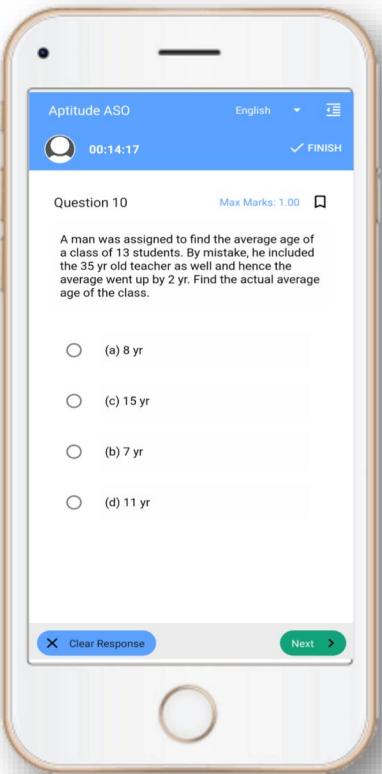


# OSSSC Exam- Mock Test, PYQS , Note,

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**PART-B**  
**MATHEMATICS : 100 Marks**

*Instructions : Each question under this section carries TWO marks. Please read the questions carefully and answer them by selecting the correct answer out of the multiple answers given below each as A, B, C and D.*

*There shall be negative marking @ 0.5 mark per question for wrong/multiple answers.*

51. If a number is increased by 25% and then decreased by 25%, find out the percentage of increase/decrease of final value of the number.
- (A) Increase by  $6\frac{1}{4}\%$                                   (B) Decrease by  $6\frac{1}{4}\%$   
 (C) Increase by  $93\frac{3}{4}\%$                                   (D) Decrease by  $93\frac{3}{4}\%$
- যদি গোটিখ সংখ্যা শৃঙ্খলা 25 বৃক্ষিপাখ এবং তাপরে শৃঙ্খলা 25 হ্রাস পাখ; তেবে সংখ্যাটির কুতান্ত মূলখ শৃঙ্খলা  
কেতে বৃক্ষি বা হ্রাস হবে ?
- (A)  $6\frac{1}{4}\%$  বৃক্ষি    (B)  $6\frac{1}{4}\%$  হ্রাস  
 (C)  $93\frac{3}{4}\%$  বৃক্ষি    (D)  $93\frac{3}{4}\%$  হ্রাস
52. A person's present age is three-fifth of the age of his mother. After 8 years, he will be two-third of the age of his mother. How old is mother at present?
- জনে ব্যক্তির বর্তমান বয়স তাঙ্ক মাআঙ্ক বয়সের তিনি-পাঞ্চমাংশ। 8 বর্ষ পরে তাঙ্কের বয়স তাঙ্ক মাআঙ্ক বয়সের  
দুই-চূড়াপাঁচাংশ হবে। বর্তমান তাঙ্ক মাআঙ্কের বয়স কেতে ?
- (A) 36 years    (B) 38 years  
 (C) 40 years    (D) 42 years
53. Find the greatest 3-digit number which when divided by 5, 6 and 7 leaves a remainder of 3 in each case.
- কের্তৃ তিনিইক বিশিষ্ট বৃহত্তম সংখ্যাকু 5, 6 এবং 7 দ্বারা ভাগ কলে ভাগশেষ প্রত্যেক শেষেরে 3 হবে?
- (A) 999    (B) 943  
 (C) 843    (D) 840
54. A train running at the speed of 60km/hr crosses a single pole in 12 seconds. Find the length of the train.
- গোটিখ ট্রেন পথে প্রতি 60 কি.মি. বেগে গতি করুথিবা পময়ের এক খুঁশকু 12 পেকেণ্টের অতিক্রম কলা। তেবে  
ট্রেনৰ দৈর্ঘ্য কেতে?
- (A) 80m    (B) 100m  
 (C) 120m    (D) 200m

55. A shopkeeper sells two articles at Rs. 600 each, making a profit of 20% on the first article and a loss of 20% on the second article. Find the net profit/loss that he makes.

- (A) 4% Loss                                 (B) 2% Loss  
 (C) 1% Profit                                 (D) No profit or Loss

ଜଣେ ଦୋକାନୀ ସୁଲକ୍ଷଣ ଦ୍ୱାରା ପ୍ରତ୍ୟେକ 600 ଟଙ୍କାରେ ବିକ୍ରି କରି ପ୍ରଥମ ଦ୍ୱାରା ଶତକତା 20 ଲାଭ ଓ ଦ୍ୱିତୀୟ ଦ୍ୱାରା ଶତକତା 20 ଶତ କରାନ୍ତି । ତେବେ ସେ ବାସ୍ତବିକ କେତେ ଲାଭ କିମ୍ବା ଶତ କରାନ୍ତି ?

- (A) 4% ଶତ                                     (B) 2% ଶତ  
 (C) 1% ଲାଭ                                     (D) ଲାଭ ବା ଶତ ନାହିଁ

56. The salary of X, Y and Z are in the ratio 5 : 3 : 1. The salary of X and Y together is Rs 7200. By what percent is salary of X more than that of Z ?

X, Y ଓ Z ର ଦରମାର ଅନୁପାତ 5 : 3 : 1 । X ଓ Y ର ଏକତ୍ର ଭାବେ ଦରମା 7200 ଟଙ୍କା । X ର ଦରମା Z ର ଦରମାଠାରୁ ଶତକତା କେତେ ଅଧିକ ?

- (A) 100%    (B) 200%  
 (C) 300%    (D) 400%

57. A sum of money amounts to Rs. 7200 after 6 years and Rs. 9900 after 9 years at the same rate of simple interest. Find out the rate of interest.

ସମ୍ପର୍କାନ୍ତରେ 6 ବର୍ଷରେ 7200 ଟଙ୍କା ୧୩ ବର୍ଷରେ 9900 ଟଙ୍କା ହୁଏ । ତେବେ ବାର୍ଷିକ ଘୂର୍ଣ୍ଣର ହାର କେତେ ?

- (A) 30%   (B) 40%  
 (C) 50%   (D) 60%

58. If  $5^{x-y} = 125$ ,  $2^{x+y} = 128$ , then find the value of  $x^2 - y^2$  ?

ଯଦି  $5^{x-y} = 125$ ,  $2^{x+y} = 128$ , ତେବେ  $x^2 - y^2$  ର ମୂଳ୍ୟ କେତେ ?

- (A) 35    (B) 21    (C) 7    (D) 0

59. Determine the value of 'a' when  $\sqrt[3]{5^a} = 25$

ଯଦି  $\sqrt[3]{5^a} = 25$  ହୁଏ, ତେବେ 'a' ର ମୂଳ୍ୟ କେତେ ?

- (A) 3   (B) 6   (C) 9   (D) 12

60. A person takes 30 minutes more to cover a certain distance by decreasing his speed by 40%. What is the time taken to cover the distance at his original speed?

ଜଣେ ବ୍ୟକ୍ତି ଏକ ନିର୍ଦ୍ଦିଷ୍ଟ ଦୂରତାକୁ ଅତିକ୍ରମ କରିବା ପାଇଁ ସେ ତାଙ୍କର ଦେଗ ଶତକତା 40 କମାଇଲେ 30 ମିନିଟ୍ ଅଧିକ ନିଅନ୍ତି । ତେବେ ସେ ଯଦି ମୂଳ ଦେଗରେ ଗଢ଼ି କରାନ୍ତି, ତେବେ ସେହି ଦୂରତାକୁ ଅତିକ୍ରମ କରିବା ପାଇଁ କେତେ ପରମ୍ପରା ଲାଗିବ ?

- (A)  $\frac{1}{2}$  hr   (B)  $\frac{3}{4}$  hr   (C) 1 hr   (D)  $1 \frac{1}{2}$  hrs

- 61.** 20 men and 25 women together can complete a work in 5 days. It takes 150 days for one man alone to complete the work. How many days will be required for one woman to complete the same work?

20 ଜଣ ପୁରୁଷ ଓ 25 ଜଣ ସ୍ତ୍ରୀ ଗୋଟିଏ କାର୍ଯ୍ୟକୁ 5 ଦିନରେ ଶେଷ କରନ୍ତି । ଜଣେ ପୁରୁଷଙ୍କୁ ଏକାକୀ ସମାନ କାର୍ଯ୍ୟ ଶେଷ କରିବାକୁ 150 ଦିନ ଲାଗେ । ତେବେ ଜଣେ ସ୍ତ୍ରୀଙ୍କୁ ଏକାକୀ ସମାନ କାର୍ଯ୍ୟ ଶେଷ କରିବାକୁ କେତେ ଦିନ ଲାଗିବ ?

(A) 300

(B) 325

(C) 350

(D) 375

- 62.** A rectangular block, having length, breadth and height 16cm, 12cm and 8cm respectively, is cut into an exact number of equal cubes. Find the least possible number of cubes.

ଗୋଟିଏ ଆୟୁଚକାର ପଦାର୍ଥ, ଯାହାର ଦୈର୍ଘ୍ୟ, ପ୍ରସ୍ଥ ଓ ଉଚ୍ଚତା ଯଥାକ୍ରମେ 16 ସେ.ମି., 12 ସେ.ମି. ଓ 8 ସେ.ମି. କୁ କଟାଯାଇ ଠିକ୍ ସମାନ ସଞ୍ଚାର ସମସ୍ତନରେ ପରିଣତ କରାଯାଏ । ତେବେ ସର୍ବନିମ୍ନ ସମସ୍ତନର ସଞ୍ଚାର କେତେ ?

(A) 18

(B) 24

(C) 30

(D) 36

- 63.** If  $x > y$ ,  $x + y = 36$  and  $\frac{1}{x} + \frac{1}{y} = \frac{1}{8}$ , then find out the value of  $x$  and  $y$  ?

ଯଦି  $x > y$ ,  $x + y = 36$  and  $\frac{1}{x} + \frac{1}{y} = \frac{1}{8}$ , ତେବେ  $x$  ଓ  $y$  ର ମୂଲ୍ୟ କେତେ ?

(A) 27, 9

(B) 24, 12

(C) 18, 18

(D) 36, 0

- 64.** If 15 men working for 8 hours a day can plough a field in 36 days, in how many days will 9 men working for 12 hours a day can plough the same field ?

ଯଦି 15 ଜଣ ପୁରୁଷ ଦିନକୁ 8 ଘଣ୍ଟା ଲେଖାଏଁ କାମ କରି ଏକ ଜମିକୁ 36 ଦିନରେ ଚାଷ କରିପାରନ୍ତି ; ତେବେ 9 ଜଣ ପୁରୁଷ ଦିନକୁ 12 ଘଣ୍ଟା ଲେଖାଏଁ କାମ କଲେ ଯେହି ଜମିକୁ କେତେ ଦିନରେ ଚାଷ କରିପାରିବେ ?

(A) 32

(B) 36

(C) 40

(D) 45

- 65.** If the external and internal circumference of a circular road is 396m and 352m respectively, then what is the width of the road? ( $\pi = \frac{22}{7}$ )

ଯଦି ଗୋଟିଏ ଚାରିକାର ରାସ୍ତାର ବାହାର ଓ ଭିତର ପରିଧି ଯଥାକ୍ରମେ 396 ମିଟର ଓ 352 ମିଟର ହୁଏ, ତେବେ ରାସ୍ତାର ପ୍ରସ୍ଥ କେତେ ? ( $\pi = \frac{22}{7}$ )

(A) 7m

(B) 14m

(C) 21m

(D) 28m

- 66.** The volume of a cylinder is  $1232\text{m}^3$ . If the area of curved surface is  $176\text{m}^2$ , then find out the circumference of its base? ( $\pi = \frac{22}{7}$ )

ଗୋଟିଏ ପିଲିଛିର ଘନପତ୍ର 1232 ଘ.ମି. । ଯଦି ଏହାର ବକ୍ତ୍ର ପୃଷ୍ଠାତଳର କ୍ଷେତ୍ରଫଳ 176 ବ.ମି. ହୁଏ, ତେବେ ଭୂମିର ପରିଧି କେତେ ? ( $\pi = \frac{22}{7}$ )

(A) 22m

(B) 44m

(C) 88m

(D) 196m



67. If  $0.\overline{863}$  is converted into a rational number, find out the number?

যদি  $0.\overline{863}$  কু গোটিএ পরিমেয় সংখ্যারে পরিবর্তন করায়া�, তেবে সংখ্যাটি কেতে ?

(A)  $\frac{4}{5}$   
(C)  $\frac{863}{1000}$

(B)  $\frac{43}{50}$   
(D)  $\frac{19}{22}$

68. Find the value of  $\left(\frac{4}{9}\right)^{\frac{1}{2}} \times 64^{\frac{2}{3}} \times \left(1\frac{1}{3}\right)^{-1}$  ?

$\left(\frac{4}{9}\right)^{\frac{1}{2}} \times 64^{\frac{2}{3}} \times \left(1\frac{1}{3}\right)^{-1}$  র মূল্য নির্ণয় কর?

(A) 4

(B) 8

(C) 16

(D) 32

69.  $\left(\frac{x}{x+y} + \frac{y}{x-y}\right) \div \left(\frac{x}{x-y} - \frac{y}{x+y}\right) = \text{_____} ?$

(A)  $\frac{1}{4}$   
(C) 1

(B)  $\frac{1}{2}$   
(D) 2

70. If  $2^{x+2} \times 3^{x-2} = 96$ , find the value of  $x$ .

যদি  $2^{x+2} \times 3^{x-2} = 96$  হুৱ,  $x$  র মূল্য নির্ণয় কর ?

(A) 1

(B) 2

(C) 3

(D) 4

71. If  $x : y = 3 : 4$ , then what is the value of  $(3x - y) : (x + 2y)$  ?

যদি  $x : y = 3 : 4$  হুৱ, তেবে  $(3x - y) : (x + 2y)$  র মূল্য কেতে ?

(A) 5 : 11  
(C) 16 : 55

(B) 11 : 5  
(D) 55 : 16

72. If the side of an equilateral triangle is decreased by 2cm, its area is decreased by  $11\sqrt{3}$  cm<sup>2</sup>. What is the height of the triangle?

যদি গোটিএ পম্বারু ত্রিভুজৰ প্ৰয়েক বাহুৰ দৈৰ্ঘ্যকু 2 ষে.মি. কমায়াৰ, এহাৰ শেকৃতি 11 $\sqrt{3}$  বৰ্গ ষে.মি. কমিয়াৰ। ত্রিভুজৰ উচ্চতা কেতে ?

(A)  $3\sqrt{3}$  cm  
(C)  $5\sqrt{3}$  cm

(B)  $4\sqrt{3}$  cm  
(D)  $6\sqrt{3}$  cm

73. What is the value of  $\frac{\sin^2 \theta}{1+\cos \theta} + \frac{\sin^2 \theta}{1-\cos \theta}$  ?

$\frac{\sin^2 \theta}{1+\cos \theta} + \frac{\sin^2 \theta}{1-\cos \theta}$  র মূল্য কেতে ?

(A) 0

(B)  $\frac{1}{2}$

(C) 1

(D) 2

74. Find out the value of  $(0.04)^{-2}$ .

$(0.04)^{-2}$  ර මුළු නිර්ණ කර ?

(A) 625

(B) 2500

(C) 5000

(D) 10,000

75. What is the smallest number by which 13122 must be divided to make it a perfect cube?

13122 දැක් සුදුම සංඡා දුග තාග කලේ තාගපළ එක පුරුෂන සංඡා හේද ?

(A) 12

(B) 18

(C) 36

(D) 72

76. If each angle of a triangle is decreased by  $10^{\circ}$ , the ratio of three resultant angles will be  $6 : 4 : 5$ .  
Find out the greatest angle of the triangle?

ගොටිං ත්‍රිඉජර ප්‍රයෝග කොළඹ පරිමා රු  $10^{\circ}$  ලෙසා නිශ්චිත කළ පරිගණක නිර්ණය නැත්තා අනුපාත  $6 : 4 : 5$  හුද ! ත්‍රිඉජර සුදුම කොළඹ පරිමා කෙතේ ?

(A)  $50^{\circ}$

(B)  $60^{\circ}$

(C)  $70^{\circ}$

(D)  $80^{\circ}$

77. A fruit seller purchased 20 kg of apples at Rs 300. Out of total quantity, 2 kg of apples were rotten. At what price per kg he should sell the balance quantity of apples to get a profit of 20%?

ගොටිං පළ දොකාන 20 කි.ග්‍රා. යෝ 300 ග්‍ණ නිශ්චිත කළ ඇති 2 කි.ග්‍රා. පා බාහාරිලා ! අඩංගු යෝ කි.ග්‍රා. ප්‍රති කෙතේ දරයේ විකුණු කලේ ගැනීමා 20 ලාඛ හේද ?

(A) Rs. 36

(B) Rs. 20

(C) Rs. 18

(D) Rs. 15

78. A businessman gives 10% discount on the marked price of a watch. If the cost price of the watch is Rs. 300, then find out the marked price to get a profit of 20%?

ඡේ බුද්ධායා ගෘහී මුළු තුවර ගැනීමා 10 බිජාටි බිජාටි ! ගෘහී කුයුමූල 300 ග්‍ණ හෙළේ ගැනීමා 20 ලාඛ පාඨභා පාල් ලිජිත මුළු කෙතේ හේද ?

(A) Rs. 300

(B) Rs. 360

(C) Rs. 400

(D) Rs. 450

79. A person deposited Rs. 9000 in a bank. After 2 years, he withdrew Rs. 4000. At the end of 5 years he got Rs. 7640 from the bank. Find out the rate of simple interest per annum?

ඡේ බුද්ධා තුවර 9000 ග්‍ණ තාග දෙනා ! 2 බර් පරෙ යේ 4000 ග්‍ණ තොකළා ! 5 බර් ගෙවෙ යේ 7640 ග්‍ණ පාඨභා ! තෙවෙ බාරික පරළ යුධර හාර කෙතේ ?

(A) 6%

(B) 8%

(C) 10%

(D) 12%



80. What will be the total compound interest for 9 months on Rs. 5,000 at the rate of 40% per annum if the interest is compounded quarterly?

5000 ଟଙ୍କାରେ ବାର୍ଷିକ ଶତକତା 40 ଚକ୍ରବୃଦ୍ଧି ସୁଧ ହାରରେ 9 ମାସର ମୋତ୍ତ ଚକ୍ରବୃଦ୍ଧି ସୁଧ କେତେ ହେବ, ଯଦି 3 ମାସକୁ ଥରେ ଚକ୍ରବୃଦ୍ଧି ସୁଧ ହିସାବ କରାଯାଏ ?

(A) Rs. 1665

(B) Rs. 1655

(C) Rs. 1645

(D) Rs. 1630

81. The length of three rectangles having equal area are 24 cm, 12cm and 8cm. What will be the ratio of their breadth?

ସମାନ କ୍ଷେତ୍ରଫଳ ବିଶିଷ୍ଟ ତିନୋଟି ଆୟତକ୍ଷେତ୍ରର ଲମ୍ବ 24 ସେ.ମି., 12 ସେ.ମି. ଓ 8 ସେ.ମି. । ତେବେ ସେମାନଙ୍କର ପ୍ରମାଣ ଅନୁପାତ କେତେ ହେବ ?

(A) 3 : 2 : 1

(B) 2 : 3 : 1

(C) 2 : 1 : 3

(D) 1 : 2 : 3

82. A cube of wood of side 12cm was cut and formed into a largest sphere. Find out the volume of the sphere?

12 ସେ.ମି. ବାହୁ ବିଶିଷ୍ଟ ଗୋଟିଏ ସମସନାକାର କାଠଖଣ୍ଡିକୁ କାଟି ଏକ ବୃଦ୍ଧତମ ଗୋଲକରେ ପରିଣତ କରାଗଲା । ଗୋଲକର ଘନଫଳ ଛାଇ କର ।

(A)  $288 \pi \text{ cm}^3$

(B)  $864 \pi \text{ cm}^3$

(C)  $2304 \pi \text{ cm}^3$

(D)  $6912 \pi \text{ cm}^3$

83. Asim purchased rice of Rs. 800. He sold  $\frac{3}{4}$ th out of purchased rice at a profit of 10% and rest part at a loss of 10%. Then find out the percentage of profit or loss in selling of total rice?

(A) 2.5% Loss

(B) 5% profit

(C) 7.5% profit

(D) 10% Loss

ଅଧିମ୍ବ 800 ଟଙ୍କାରେ ତାରଳ କିଣିଲେ । କିଣିଥିବା ତାରଳର  $\frac{3}{4}$  ଅଂଶକୁ ଶତକତା 10 ଲାଭରେ ଓ ଅବଶିଷ୍ଟ ଅଂଶକୁ ଶତକତା 10 କ୍ଷତିରେ ବିକ୍ରି କଲେ । ତେବେ ସମସ୍ତ ତାରଳ ବିକ୍ରିରେ ତାଙ୍କର ଶତକତା କେତେ ଲାଭ ବା କ୍ଷତି ହେଲା ?

(A) 2.5% କ୍ଷତି

(B) 5% ଲାଭ

(C) 7.5% ଲାଭ

(D) 10% କ୍ଷତି

84. A seller marked a price of Rs. 460 on a cycle and sold it giving 25% discount. If he got 15% profit, then find out the cost price of cycle purchased by him?

ଜଣେ ଦୋକାନୀ 1 ଏକ ପାଇକେଲ୍ ଉପରେ 460 ଟଙ୍କା ଦାମ ଲେଖିଥିଲେ ଏବଂ ଶତକତା 25 ରିହାତି ଦେଇ ବିକ୍ରି କଲେ । ସେଥିରେ ତାଙ୍କର ଶତକତା 15 ଲାଭ ପାଇଥିଲେ । ପାଇକେଲ୍ଟିକୁ ସେ କେତେ ଦାମରେ କିଣିଥିଲେ ?

(A) Rs. 414

(B) Rs. 360

(C) Rs. 300

(D) Rs. 200



85. Find out the sum of the sequence of  $\frac{1}{5 \times 6} + \frac{1}{6 \times 7} + \frac{1}{7 \times 8} \dots \dots \dots$  up to 16<sup>th</sup> terms?

$\frac{1}{5 \times 6} + \frac{1}{6 \times 7} + \frac{1}{7 \times 8} \dots \dots \dots$  16 ଟି ପଦ ପର୍ଯ୍ୟନ୍ତ ଅନୁକ୍ରମର ଯୋଗପଳ କେତେ ?

(A)  $\frac{16}{105}$

(B)  $\frac{20}{21}$

(C)  $\frac{4}{5}$

(D)  $\frac{21}{22}$

86. A finished  $\frac{3}{10}$  of a work in 9 days for colouring of a house. A and B together completed rest work in 7 days. If B alone works, how many days he would have taken to complete the entire work?

A ଗୋଟିଏ ଘର ରଙ୍ଗ ଦେବା ପାଇଁ 9 ଦିନରେ  $\frac{3}{10}$  ଅଂଶ କାମ ଶେଷ କଲା । A ସହ B ମିଶି ଅବଶିଷ୍ଟ କାମକୁ 7 ଦିନରେ ଶେଷ କଲୋ ତେବେ ଯଦି B ଏକାକୀ କାର୍ଯ୍ୟ କରନ୍ତି, ସେ ସମୁଦାୟ କାର୍ଯ୍ୟକୁ କେତେ ଦିନରେ ଶେଷ କରିପାରିବେ ?

(A) 30

(B) 20

(C) 16

(D) 15

87. If  $\frac{\sqrt{3}+\sqrt{2}}{\sqrt{3}-\sqrt{2}} = a + b\sqrt{6}$ , then find out the value of a and b ?

ଯଦି  $\frac{\sqrt{3}+\sqrt{2}}{\sqrt{3}-\sqrt{2}} = a + b\sqrt{6}$  ହୁଏ, ତେବେ a ଓ b ର ମୂଲ୍ୟ କେତେ ?

(A)  $\frac{7}{5}, \frac{3}{5}$

(B)  $\frac{7}{5}, -\frac{3}{5}$

(C)  $-\frac{7}{5}, \frac{3}{5}$

(D)  $-\frac{7}{5}, -\frac{3}{5}$

88. A batsman makes a score of 95 runs in the 16<sup>th</sup> innings and thus increases his average by 4 runs. Find his average runs after 16<sup>th</sup> innings?

ଜଣେ ବ୍ୟାଟ୍ସମ୍ବାନ୍ ଡାଙ୍କର ଶୋତଶ ପାଇଁ 95 ରନ୍ କରନ୍ତି ଓ ୪ ଥିପାଇଁ ଡାଙ୍କର ହାରାହାରି ରନ୍ ଆଉ 4 ଚାରି ହୁଏ । ତେବେ ଡାଙ୍କର ଶୋତଶ ପାଇଁ ପରେ ହାରାହାରି ରନ୍ କେତେ ?

(A) 35

(B) 34

(C) 33

(D) 32

89. A boat man can row 5km against the stream in 30 minutes and return in 20 minutes. Find the rate of current?

ଜଣେ ନାନାରୀ ପ୍ରୋତ ପ୍ରତିକ୍ରିଯାକାରୀ 30 ମିନିଟ୍‌ରେ 5 କି.ମି. ଆହୁଳା ମାରିପାରନ୍ତି ଓ 20 ମିନିଟ୍‌ରେ ଫେରିପାରନ୍ତି । ପ୍ରୋତ ବେଗ କେତେ ?

(A) 2km/hr

(B)  $2 \frac{1}{2}$  km/hr

(C) 5km/hr

(D)  $7 \frac{1}{2}$  km/hr

90. Three numbers are in the ratio 4 : 5 : 6 and their LCM is 4500. What is their HCF?

ତିନୋଟି ସଂଖ୍ୟାର ଅନୁପାତ 4 : 5 : 6 ଏବଂ ସେମାନଙ୍କର ଲ.ସା.ଗୁ. 4500। ତେବେ ସେମାନଙ୍କର ଗ.ସା.ଗୁ. କେତେ ?

(A) 45

(B) 60

(C) 75

(D) 90

91. A mixture of 200 litres of milk and water contains 10% of water. How much more water should be added so that water becomes 20% of the new mixture?

200 ଲିଟର ଦୂଧ ଓ ପାଣିର ଏକ ମିଶ୍ରଣରେ ଶତକତା 10 ପାଣି ଅଛି । ଏହି ମିଶ୍ରଣରେ ଆଉ କେତେ ପାଣି ମିଶାଇଲେ ପାଣିର ଅଂଶ ଶତକତା 20 ହେବ ?

(A) 10 litres

(B) 20 litres

(C) 25 litres

(D) 40 litres

92. A wire can be bent in the form of a circle of radius 28cm. If it is bent in the form of a square, then what will be its area? ( $\pi = \frac{22}{7}$ )

ଗୋଟିଏ ତାରକୁ 28 ସେ.ମି. ବ୍ୟାସାର୍ଥ ବିଶିଷ୍ଟ ଏକ ବୃତ୍ତ ଆକୃତିରେ ବଜ୍ଞ କରାଯାଇପାରେ । ଯଦି ଏହି ତାରକୁ ଏକ ବର୍ଗକ୍ଷେତ୍ର ଆକୃତିରେ ବଜ୍ଞ କରାଯାଏ, ତେବେ ଏହାର କ୍ଷେତ୍ରଫଳ କେତେ ? ( $\pi = \frac{22}{7}$ )

(A) 1089cm<sup>2</sup>

(B) 1936cm<sup>2</sup>

(C) 3025cm<sup>2</sup>

(D) 4356cm<sup>2</sup>

93. The average age of a husband and his wife was 25 years at the time of their marriage. After six years, they have a one year child. What is the average age of the family now?

ଜଣେ ସ୍ୱାମୀ ଓ ସ୍ୱାର୍ଗ ସେମାନଙ୍କ ବିବାହ ସମୟରେ ହାରାହାରି ବୟସ 25 ଥିଲା । ଛଥ ବର୍ଷ ପରେ, ସେମାନଙ୍କର ଗୋଟିଏ ଏକ ବର୍ଷର ଶିଶୁ ଅଛି । ବର୍ଜମାନ ପରିବାରର ହାରାହାରି ବୟସ କେତେ ?

(A) 19 years

(B) 21 years

(C) 23 years

(D) 25 years

94. A boat can move 9km/hr in still water. If the river is running 3km/hr, it takes 90 minutes to move to a place and back. How far is the place?

ଗୋଟିଏ ନୌକା ଛାଇ ଜଳରେ ଘଣ୍ଟା ପ୍ରତି 9 କି.ମି. ବେଗରେ ଗଢ଼ି କରିପାରେ । ଯଦି ନଦୀର ପ୍ରୋତ୍ସହ ଘଣ୍ଟା ପ୍ରତି 3 କି.ମି. ବେଗରେ ଗଢ଼ି କରେ, ଏହା ଗୋଟିଏ ଯାନକୁ ଗଢ଼ି କରିବା ଓ ଫେରିବା ପାଇଁ 90 ମିନିଟ୍ ସମୟ ନିର୍ଣ୍ଣୟ । ତେବେ ଯାନଟିର ଦୂରତା କେତେ ?

(A) 3 Km

(B) 4 Km

(C) 6 Km

(D) 9 Km

95. If the simple interest on a sum of money at 10% per annum for 3 years is Rs. 1500, find the compound interest on the same sum for the same period and the same rate.

ଯଦି କୋଣେକି ମୂଲଧନର ଶତକତା 10 ହାରରେ 3 ବର୍ଷର ପରିଲପ୍ତ ପ୍ରତିଶତ 1500 ଟଙ୍କା ହୁଏ, ତେବେ ସେହି ମୂଲଧନର ସେହି ସମୟ ମଧ୍ୟରେ ସେହି ସୁଧ ହାରରେ ଚକ୍ରକୃତି ପ୍ରତିଶତ ହେବ ?

(A) Rs. 1655

(B) Rs. 1665

(C) Rs. 1675

(D) Rs. 1685

2

96. Hari read  $\frac{7}{15}$ th pages of a book in the 1<sup>st</sup> week and  $\frac{5}{12}$ th of the remaining pages of that book in the 2<sup>nd</sup> week. If there were 56 pages unread after 2<sup>nd</sup> week, how many pages were in the book?

හරි ගොට්ට බහුරූ 7/15 අංශ ප්‍රාක්ෂා ප්‍රාථම සපුළුවරේ පඩිලේ වෙත පැහැදිලි බහුරූ අඛණ්ඩ ප්‍රාක්ෂා මුළු අංශ දිග්‍ය සපුළුවරේ පඩිලේ | යදි දිග්‍ය සපුළුවරේ පරෙ ආර 56 ප්‍රාක්ෂා ප්‍රාක්ෂා මුළු නෘත්‍ය තුළ තෙවෙ බහුරූ කෙතේ ප්‍රාක්ෂා එකා ?

(A) 160

(B) 180

(C) 200

(D) 220

97. If the sum of two numbers is 42 and the HCF and LCM of these numbers are 6 and 72 respectively, then what is the sum of the reciprocals of the numbers?

යදි දුරක්ෂා ප්‍රාගපාලන 42 වේ හෝ ප්‍රාගපාලන ප්‍රාග්‍යාගුණීකර ග.සා.ගු. වේ ල.සා.ගු. යථාක්‍රමේ 6 වේ 72 මුදු, තෙවෙ ප්‍රාග්‍යාගුණීකර බුදුක්‍රමර ප්‍රාගපාලන කෙතේ ?

(A)  $\frac{7}{72}$ (B)  $\frac{72}{7}$ (C)  $\frac{42}{433}$ (D)  $\frac{433}{42}$ 

98. From a point on a level ground the angle of elevation to the top of the tower is  $60^{\circ}$ . If the tower is 346m high, what is the distance of the point from the foot of the tower? ( $\sqrt{3}=1.73$ )

ගොට්ට ප්‍රමාණ රේ එබා ගොට්ට බිඳුරු අඡාකිකා ග්‍රෑන්ඩ කොෂිජ තුළුත් පරිමා මුදු  $60^{\circ}$  | යදි අඡාකිකා තුළුතා 346 මී. මුදු, තෙවෙ අඡාකිකා පාදධෙශතාරු බිඳුරු දුරුතා කෙතේ ? ( $\sqrt{3}=1.73$ )

(A)  $346\sqrt{3}$ m

(B) 173m

(C) 100m

(D) 200m

99. If  $60\% \text{ of } \frac{5}{12}$  of a number is 9.5, then find out the number?

එක ප්‍රාග්‍යා මුදු  $\frac{5}{12}$  රේ ග්‍රෑන්ඩ 60 යදි 9.5 මුදු, තෙවෙ ප්‍රාග්‍යා මුදු කෙතේ ?

(A) 380

(B) 95

(C) 38

(D) 3.8

100. A invested 20% more than B. B invested 25% less than C. If the total sum of their investment is Rs. 2650, how much amount did 'B' invest?

A, B චාරු ග්‍රෑන්ඩ 20 අංශක අර්ථ බිඳුරු කළේ | B, C අපේක්ෂා ග්‍රෑන්ඩ 25 කම් අංශක අර්ථ බිඳුරු කළේ | යදි පෙමාන්ජර ප්‍රාග්‍යා අර්ථ බිඳුරු පරිමා මුදු 2650 ග්‍රෑන්ඩ මුදු, තෙවෙ B රේ අර්ථ බිඳුරු පරිමා කෙතේ ?

(A) Rs. 750

(B) Rs. 900

(C) Rs. 1000

(D) Rs. 1340

