## INDIAN SCHOOL MUSCAT MIDDLE SECTION DEPARTMENT OF MATHEMATICS STD 6 (ANSWER KEY) 2018-19

Qns	31D 0 (ANSWER RET) 2010-19					
QII3	SECTION A					
1.	Find the sum of the place values of 5's in 65,459	5050				
2.	Find the number of whole numbers between 23 and 55	31				
3.	If the radius of a circle is 3cm, then what is the length of each diameter?	6cm				
4.	What is the HCF of 15 and 16?	1				
5.	What is the name of the angle that measures exactly 180°?	Straight angle				
6.	Write the prime numbers between 18 and 24.					
	SECTION B					
7.	Insert commas suitably and write the number name of 56943102 in Indian system of numeration.  5,69,43,102 — Five crore sixty- nine lakh forty-three thousand one hundred two					
8.	Find the greatest and the smallest numbers that can be formed by using the digits 9,0,2,5,7,4 each only once  GREATEST NUMBER - 975420 SMALLEST NUMBER - 204579					
9.	Find the value using suitable property: 2479 × 143 – 2479 × 43 2479 × (143 - 43) = 2479 × (100) = 47900					
10.	Which direction will you face if you start facing - i) South and make $\frac{3}{4}$ of a revolution clockwise? East ii) East and make $\frac{1}{4}$ of a revolution anticlockwise? North					
11.	From the given figure, name the following:  i) A pair of intersecting lines line r & line p (or) line r & line q ii) A pair of parallel lines line p & line q					
12.	Find the prime factorization 0f 144  2   144     72     2   36     2   18     3   9     3   3       1					
13.	$144 = 2 \times 2 \times 2 \times 2 \times 3 \times 3$ Estimate (5644 + 1789) by rounding off each number to its nearest 100					
10.	5644 rounded off to nearest 100 - 5600  1789 rounded off to nearest 100 - 1800  Sum - 7400					

The weight of each gas cylinder is 21kg 270g. Find the weight of 34 such cylinders. The weight of 1 gas cylinder 21kg 270g The weight of 34 gas cylinders 21.270 **×** 34 85080 638100 723180 The weight of 34 gas cylinders = 723 kg 180 g Find the sum of (409 + 168 + 591 + 432) by suitable rearrangement. 15. (409 + 168 + 591 + 432) = 409 + 591 + 168 + 432= 1000 + 600= 1600 16. In the given quadrilateral DEFG, name-G D a) a pair of opposite sides DG,EF (or) DE,FG b) a pair of opposite angles <u>/D , /F (or) /G , /E</u> c) the two diagonals DF, FG 17. Using divisibility test ,determine if 56248 is divisible by 8 (Show the working) Rule: The number formed by the last 3 digits should be divisible by 8 Division of  $248 \div 8 = 31$ 248 is divisible by 8 So 56248 is divisible by 8 The numbers of students from three sections of class VI are 32, 36, and 40. Find the 18. minimum number of books required for their class library so that they can be equally distributed among the students of three sections. 2 32, 36, 40 2 | 16 , 18 , 20 <u>8, 9, 10</u> 2 2 4, 9, 5 2, 9, 5 2 5 1, 9, 5 3 1, 9, 1 1, 3, 1 1,1,1 Minimum number of books required =  $2 \times 2 \times 2 \times 2 \times 2 \times 3 \times 3 \times 3$  $= 4 \times 4 \times 10 \times 9$  $= 16 \times 90 = 1440$ So minimum number of books required = 1440 Find the product of  $(125 \times 50 \times 8 \times 7)$  by suitable rearrangement. 19.  $125 \times 8 \times 50 \times 7 = 1000 \times 350 = 3.50,000$ 20. Find the HCF of 12, 18, 48 by continuous division method 12)18(1 ½ M 6) 48 (8 12 <u>48</u> 6) 12 (2 ½M <u>12</u> 0

HCF of 12 ,18 ,48 is 6

HCF = 6

½ M

21. Find the number of right angles turned through by the hour hand of a clock when it moves from i)9 to 6 ii) 11 to 2 iii) 4 to 10 1 right angle 3right angles 2right angles 22. Find the product using suitable property:  $(397 \times 55) + (397 \times 44) + 397$  $(397 \times 55) + (397 \times 44) + 397 = 397 (55 + 44 + 1)$ = 397 (100)= 39700**SECTION D** Find the value of  $24 \div (9 - 5) + 6 \times 4$  by using BODMAS rule. 23.  $24 \div (9-5) + 6 \times 4 = 24 \div 4 + 6 \times 4$  $= 6 + 6 \times 4$ = 6 + 24= 3024. If a table costs Rs 4550 and a chair costs Rs 1450. Find the total amount needed to buy 30 tables and 30 chairs. The total cost = 30 (4550) + 30(1450)= 30(4550+1450)= 30(6000)= 180000The total amount needed = Rs 1,80,000 86,550 books are to be packed in different boxes, each containing 30 books. How many 25. boxes are required to pack all the books? Number of boxes required =  $86,550 \div 30$ 30) 86550 (2885 60₩ 265 240↓ 255 240₹ 150 150 Number of boxes required to pack 86,550 books = 2885 Using divisibility test, determine if 154726 is divisible by 11 26. (Show the working) EOEOEO 154726 Sum of the digits at odd places = 6 + 7 + 5 = 18Sum of the digits at even places = 2 + 4 + 1 = 7Difference = 18 - 7 = 1111 is multiple of 11 So 154726 is divisible by 154726 Name the types of the following triangles based on the measurements given. 27. i)  $\triangle$  PQR with PQ = QR = 5cm and /Q = 90° Isosceles right angled triangle ii)  $\triangle$  XYZ with XY = YZ = ZX =7cm Equilateral triangle iii)  $\triangle$  DEF with DE = 4cm, EF = 3cm, FD = 6cm Scalene triangle

Obtuse angled triangle

iv)  $\triangle$  ABC with /C = 115°

28.	Find the value using suitable property: $245 \times 1006$ $245 \times 1006 = 245 (1000 + 6)$ Distributive property $= 245 \times 1000 + 245 \times 6$ = 245000 + 1470 = 246470		
29.	Find the least number which when divided by 12, 15, 18 leaves remainder 10 in each case $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		
30.	Draw a circle of any radi i) centre O iv) a chord AB	ius and mark the following ii) a radius OP v) an arc RS	iii) A point S in its interior vi) shade a segment