INDIAN SCHOOL MUSCAT – MIDDLE SECTION – SUMMATIVE ASSESSMENT :01 (2016 – 17)

CLASS : 8 **SUB: MATHEMATICS** **DATE: 21.09.2016** **TIME: 2 HRS**

MAX MARKS: 60 **INSTRUCTIONS: ANSWER ALL THE QUESTIONS ON SEPARATE ANSWER SHEET**

Q.NO:01

S.NO	MCQ ('1' MARK EACH)
(a)	The value of $\sqrt{1.21}$ x $\sqrt{0.09}$ = _____ a) 0.033 b) 33 c) 3.3 d) 0.33
(b)	The number of diagonals of a heptagon is _____ a)14 b)7 c) 10 d) 21
(c)	The probability of getting multiple of 2, when a die is thrown ___ a) $\frac{1}{3}$ b) $\frac{1}{2}$ c) $\frac{1}{6}$ d) $\frac{1}{4}$
(d)	The digit at the ones place in the cube of 78 is_____ a)6 b)8 c)4 d)2
(e)	The sum of $\frac{2}{5}$ and its additive inverse is _____a) $\frac{2}{5}$ b) $\frac{-2}{5}$ c) 0 d) $\frac{4}{5}$
(f)	The marked price of a shirt is ₹ 1500, its selling price at a discount of 20% is ₹ _____ a) 1300 b) 1200 c) 1000 d) 1100
(g)	The least number by which (3 x 3 x 5 x 5 x 5) must be divided to make it a perfect cube is _____ a) 9 b) 3 c) 5 d) 125

S.NO	FILL IN THE BLANKS ('1' MARK EACH)
(h)	The number of digits in the square root of 5499025 is _____
(i)	If an angle of a rhombus is 95˚, then the measure of its adjacent angle is _____
(j)	The distance covered by a train of length 200m when it crosses a pole with speed of 70km/hr is ____
(k)	Actual price of a watch is ₹3500 and sold for ₹ 3570 including VAT. The VAT amount is ₹_____
(l)	There are _____ numbers between $(30)^2$ and $(31)^2$
(m)	The multiplicative inverse of $\left(\frac{1}{3}+\frac{1}{6}\right)$ is _____
(n)	Two quantities 'u' and 'v' are in direct proportion, then constant is ____

S.NO	Q.NO ('2' TO '12' – '2' MARKS EACH)
2	Find the square root of 24,336 by division method.
3	Two opposite angles of a parallelogram are $(5y - 2)^0$ and $(40 - y)^0$. Find the angles of the parallelogram.

(PTO)

S.NO	Q.NO ('2' TO '12' – '2' MARKS EACH)
4	The area of a square field is 1764 sq.m, find the length of one side
5	Find each interior angle of a regular polygon with 18 sides
6	The price of an article increased from ₹7500 to ₹7750. Find the rate of increase .
7	A group of 100 men has a provision of food for 30 days. If 20 more men join in the same group, how long will the food last ?
8	Find the least number by which 432 be multiplied to make it as a perfect cube.
9	An item was purchased in a sale for Rs 2400 after getting a discount of 20 %. Find M.P of the item?
10	In a box containing 40 mangoes, 6 mangoes are rotten. Find the probability of a)picking a rotten mango b)not picking a rotten mango
11	Calculate the compound amount on Rs.8000 for 1 year at 8% per annum. (interest being compounded half yearly)
12	Radha scored 80% marks in an examination. If she scored 560 marks, find the maximum marks.

S.NO	Q.NO ('13' TO '20' – '3' MARKS EACH)
13	Find the least number to be added to 5619 to make it a perfect square.
14	The ratio of the sides of a parallelogram is 3: 4. If its perimeter is 70 cm, find the sides
15	Arun sold a scooter for ₹ 49000 and made a loss of 2% on it. At what price should he sell to make a profit of 5%?
16	Sanjay alone can complete the painting of a house in 10 days and Rajiv alone can complete the same work in 15 days. How many days will it take to finish the work if both work together?
17	Find 3 rational numbers between $\frac{5}{6}$ and $\frac{6}{7}$.
18	Ram purchased a boat for Rs 16000.If the cost of the boat is depreciated at the rate of 5% annum, calculate its value after 2yrs.
19	Simplify using suitable property: $\left(\frac{-3}{7}\times\frac{5}{14}\right)+\left(\frac{-8}{7}\times\frac{-3}{7}\right)+\left(\frac{-3}{7}\times\frac{3}{14}\right)$
20	Find the cube root of 91125 by prime factorization method