## INDIAN SCHOOL MUSCAT - MIDDLE SECTION - FIRST TERM EXAMINATION - (2017-18)

CLASS:8

## SUBJECT: MATHEMATICS

**MAX. MARKS : 80** 

DATE : 10.09.2017 TIME : 2 ½ HRS INSTRUCTIONS: ANSWER ALL THE QUESTIONS

	( SECTION – A) – Q.NO (1 TO 4 ) – ( '1' MARK EACH )
S.NO	QUESTIONS
1	How many digits are there in the square root of 1471369?
2	What is the sum of the exterior angles of any polygon?
3	Find the product of $\frac{-2}{-7}$ and its multiplicative inverse.
4	Find the product of $4a^2 b^3$ , (- 6 $a^3 b^2$ ), 3 a b

	( SECTION – B) – Q.NO ( 5 TO 10 ) – ( '2' MARKS EACH )
S.NO	QUESTIONS
5	Find 4 rational numbers in between $\frac{-4}{5}$ and $\frac{-3}{4}$
6	Find the sum of all the interior angles of a polygon with 11 sides.
	Construct the quadrilateral ABCD with AB= 5.2cm, BC= 6cm, AC= 6.5cm, CD= 4.8cm
7	& AD= 5cm.( use ruler and compass)
8	Find the square root of 1296 by prime factorization method
	Write in which proportions do the following belong to? a) The quantity of food and
9	its cost b) If x and y are two quantities, then xy = K ( constant )
10	Find the least number by which 256 should be divided to make it a perfect cube.

	( SECTION – C) – Q.NO ( 11 TO 18 ) – ( '3' MARKS EACH )
S.NO	QUESTIONS
11	The 2 adjacent angles of a parallelogram are in the ratio 2 : 7. Find the measure of each angle.

12	Find the number of sides of a regular polygon if its each interior angle is 135°
13	Construct a square PQRS ,with PQ = 4.8cm. ( use ruler and compass only)
14	Find the square root of 9409 by division method.
15	Find the least number by which 5324 be multiplied to make it a perfect cube?
16	A worker is paid Rs 2000 for 8 days. How much will he be paid for 20 days?
17	Simplify: ( 2a – 3c ) ( 4a – 5b + 8c )
18	Subtract 3m (5m-4n) from -3m <sup>2</sup> - 2m ( 4n - 3m )

(SECTION - D) - O.NO(19 TO 28) - ('4' MARKS EACH)		
S.NO	QUESTIONS	
19	Simplify using suitable property: $\left[\frac{3}{5} \times \frac{8}{7}\right] - \left[\frac{7}{5} \times \frac{1}{2}\right] + \left[\frac{3}{5} \times \frac{6}{7}\right]$	
20	Construct a parallelogram ABCD in which BC = 6cm, AB = 4 cm and $\underline{/ABC} = 60^{\circ}$	
21	Construct a Rhombus EFGH with diagonals of length 5.8 cm and 6.2cm	
22	Find the least number which must be subtracted from 17545 to make it a perfect square.	
23	Find the square root of 68.89	
24	Find the cube root of 5832 by prime factorization method	
25	A contractor with a workforce of 294, undertook to complete a bridge in 9 days. Due to emergency he was asked to complete the work in 7 days. How many extra workers did he employ ?	
26	A car covered 18 km in 30 minutes. Find the distance covered by the car in 2hours 15minutes with the same speed.	
27	Simplify 5x ( $2y - 4$ ) + y ( $3y + 5x$ ) – 75 then evaluate for x = 1 and y = – 1	
28	Simplify : ( 3p – 4q ) ( 3p + 4q ) – 7q ( p – q )	