ROLL NO.

## INDIAN SCHOOL MUSCAT MIDDLE SECTION HALF YEARLY EXAMINATION 2019–20 SUBJECT – MATHEMATICS



Code:MXM11 Time Allotted: 2 ½ hrs Max .Marks: 80

CLASS 7 30.09.2019

General Instructions.

1. The question paper comprises of three sections A ,B ,C and D.You have to attempt all the sections.

2. All the questions are **compulsory.** 

3. All the answers should be written in the **answer sheet** provided.

## Q.NO1 <u>SECTION 'A'-( '1' MARK EACH ) – TOTAL – 20 MARKS</u> Marks

## MULTIPLE CHOICE QUESTIONS-( '1' MARKS EACH ) - TOTAL - 10 MARKS

(a)	The complement of angle of 65 ° is	_ a) 45°	b)55°	c)25°	d) 65º	1
(b) (c)	$(-345) \div (-345) = \_\_\_$	a) 1 a) <del>1</del>	b)–1 b) <u><sup>–1</sup></u>	c)–345	d)0 d) <del>3</del>	1
(0)	7 -7 -7	2	2	0)0	d) 7	1
(d)	(10 <sup>3</sup> ) <sup>4</sup> =	a)10 <sup>12</sup>	b)10 <sup>7</sup>	c)10 <sup>3</sup>	d)10 <sup>4</sup>	1
(e)	The additive inverse of (-3) is	a)–3	b)+3	c)0	d)1	1
(f)	The product of the numerical coefficients in the monomials $4p^2q$ and $-3p^2q$ is a) $-3$ b) 4 c) 12 d) $-12$					1
(g)	Which angle is 30° less than its supplement a)155° b)95°	? c)105°		d)75°		1
(h)	The co-efficient of x $^2$ in $-x^2$ pq is	_ a) pq	b)–pq	c)–x²p	d)–x²q	1
(i)	(- 3) × (- 4) × (- 2) =	a)-12	b)+34	c) -24	d) +24	1
(j)	If $\frac{y}{4} - 3 = 13$ , then $y = $	a)16	b)4	c)64	d)40	1
	( '1' MARK QUESTION )	– TOTAL –	-10 MARK	<u>(S</u>		
(k)	Simplify : (-35) - 62 - (-43)					1
(I)	Write $\frac{38}{-56}$ in standard form.					1
(m)	Solve $3x + 2 = 11$					1

(n)	Write two rational numbers equivalent to : $\frac{-7}{4}$	1	
(o)	Multiply $\frac{-60}{21}$ by $\frac{7}{30}$	1	
(p)	Simplify $(7^{18} \div 7^{15})$	1	
(q)	$\frac{x}{6} = \frac{5}{3}$ Find the value of x.	1	
(r)	Find the value of 'x' in the given figure $59^{\circ}$	1	
(s)	Express 3905708 in scientific notation	1	
(t)	Find the sum of 3a + b; 5a – 2b	1	
Q.NO	SECTION 'B'-( '2' MARKS EACH ) - TOTAL - 12 MARKS	Marks	
(2)	Identify the smaller number $2^6$ or $6^2$ (Show the working)	2	
(3)	Solve $5x - 6 = 4x - 2$	2	
(4)	Find the value x in the given figure $x = \frac{x}{2x+54^{\circ}}$	2	
(5)	Find the sum $\left(\frac{-4}{5}\right) + \frac{2}{3}$	2	
(6)	Find the product using suitable property : (-7) × (-125) × (8) × (-6)	2	
(7)	Identify the terms and their factors by factor tree. $-3 a^2b + 7ab^2$	2	
Q.NO	<u>SECTION 'C'–( '3' MARKS EACH ) – TOTAL – 24 MARKS</u>	Marks	
(8)	Write 968 in power notation using prime factorization	3	
(9)	The sum of two vertically opposite angles is 156°. Find each of the angles.	3	
(10)	Which is greater ? [-15+ (-43)] × 7 or [-17 + (-34)] × 5		
(11)	Find the value of m. $5^{-3} \times 5^6 = 5^{2m-1}$		

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## Q.NO SECTION 'D'-( '4' MARKS EACH ) - TOTAL - 24 MARKS Marks

- If x = 3, y = -2 and z = -4 then find the value of  $2x^3 5y^2 + 3z$ (16) 4
- (17) A number is multiplied by 3 and then 5 is added to it to get the answer 20 what is the 4 number?
- r qIf I II m then find the value of "p, q, r and s" (18)4 Write four rational numbers between  $\frac{-2}{7}$  and  $\frac{-1}{4}$ (19) 4 Find the value of  $\frac{7^2 \times 27 \times 100}{10^2 \times 3^2 \times 7}$ (20)
- Solve using suitable property. (21) a) (-665) × 22 + (-665) × 78
  - b) 133 + 244+ 167 + 56

End of the question paper.

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