NAME	ROLL NO.	



INDIAN SCHOOL MUSCAT MIDDLE SECTION ANNUAL EXAMINATION 2019–20 SUBJECT – MATHEMATICS SET - A



CLASS 7 08.03.2020 Code:MXM11

Time Allotted: 2 1/2 hrs

Max .Marks: 80

General Instructions.

- 1. The question paper comprises of four 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	SECTION 'A'-('1' MARK EACH) - TOTAL - 20 MARKS			<u>L – 20 MARKS</u>	Marks	
	MULTIPLE C	HOICE QUESTIONS	-('1' MARKS EACH)-TOTAL-10 MARKS		
(a)			r a which triangle		1	
(h)	a) Obtuse	b) Isosceles	,	, -		
(b)	a) $\frac{1}{6}$	b) $\frac{1}{3}$	ty of an odd number s c) $\frac{1}{2}$	showing up is : d) $\frac{1}{4}$	1	
(c)	If 'n' is divided by a) 14	4 equals 6 then 'n b) 24	' = c) 10	d) 2	1	
(d)	20% of 155 is a)155	b)31	c) 55	d) 20	1	
(e)	The standard for	m of $\frac{-7}{-35}$ =			1	
	a) $-\frac{1}{5}$	b) 5	c) $\frac{1}{5}$	d) – 5		
(f)	If PQ=CB, PR =C a) ASA	CA, ∠P= ∠C then Δ b) RHS	QRP $\cong \Delta$ CBA. State to c) SAS	he criterion of congruence. d) SAS	1	
(g)	If the perimeter oa) 400	of a square field is 8 b) 160	0 meters, then its are c) 6400		1	
(h)	the other interior	opposite angle is		erior opposite angle is 38°,	1	
(i)	a) 60° If PQ=LM, QR =	•	c) 80° .LMN, then LN =	d) 100°	1	
	a) PR	b) MN	c) QR	d) LM		
(j)	,	and <u>8</u> is		,	1	
	a) $\frac{1}{3}$	b) 3	c) 6	d) $\frac{1}{6}$		
		('1' MARK QUE	<u>STION) – TOTAL – 1</u>	0 MARKS		
(k)	A machine is pur	chased for Rs 1700	and sold for Rs 1870). Find its profit percentage?	1	

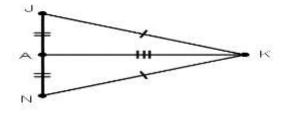
(I)	What is the side included between the angles M and N of Δ MNP?	1
	3 - 3	

(m) Solve:
$$\frac{3}{5}x = 6$$

- (n) Find the area of a isosceles right triangle of equal sides 40 cm each.
- (o) Find the quotient : $183.6 \div 6$
- (p) Find the mode of the given data: 1, 6, 4, 7, 6, 9, 2, 3, 6, 5, 6
- (q) Find the simple interest on Rs 3500 for 2 years at the rate of 15 %.
- (r) Multiply $(\frac{-8}{9}) \times \frac{3}{4}$
- (s) Find the radius of the circle whose area is 154 cm²
- (t) The angles of a triangle are in the ratio of 2:3:4. Find the measure of the smallest angle.

Q.NO SECTION 'B'-('2' MARKS EACH) – TOTAL – 12 MARKS (2) The sum of two rational numbers is – 4.If one of them is $\frac{-9}{7}$ find the other.

- (3) The area of the parallelogram is 620 cm² and one of its side is 20 cm. Find the corresponding altitude.
- (4) After 15 years, sona will be four times as old as she is now. Determine her present age.
- (5) Whether 3.4 cm, 2.1 cm and 5.3 cm be the length of the sides of a triangle?
- (6) There are 2500 students in a school out of them 1200 are girls and rest are boys. Find the ratio of numbers boys to number of girls.
- (7) In the diagram given below, prove that $\Delta JAK \cong \Delta NAK$ 2



Q.NO	SECTION 'C'-('3' MARKS EACH) - TOTAL - 24 MARKS	Marks
(8)	One of the acute angles of a right triangle is 48°. Find the other acute angle.	3
(9)	A wheel has a radius of 14cm. How many revolutions will it make to travel 704 m?	3
(10)	Draw a \triangle PQR, in which QR= 5.8 cm , \angle Q= 40° and \angle R = 60°	3
(11)	A number is multiplied by 3 and 7 is taken away from the product to get the answer 17. What is the number?	3

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Geeta bought $3\frac{1}{2}$ kg potatoes, $2\frac{1}{4}$ kg tomatoes and $1\frac{1}{2}$ kg onions .Find the total weight 3 (12)of vegetables purchased by Geeta. A basket contains 350 eggs. If 12% of the eggs are rotten, find the number of eggs, 3 (13)good enough to be sold. (14)The runs scored by 10 players in a cricket match are: 54, 73, 85, 6, 108, 0, 47, 26, 33 3 and 18. Find the mean and the median of the following data. 3 (15)If \triangle ABC \cong \triangle PQR under the correspondence ABC $\stackrel{\blacksquare}{\longrightarrow}$ PQR, write all the corresponding congruent parts of triangles Q.NO **Marks** SECTION 'D'-('4' MARKS EACH) - TOTAL - 24 MARKS (16)Two towers of height 28m and 36m are built at a distance of 15m. Find the distance 4 between the tops of the towers. (17)A rectangular park is 45m long and 30m wide. A path of 2.5m is constructed outside 4 the park. Find the area of the path. Write the rational numbers in ascending order. $\frac{-4}{9}$, $\frac{2}{-3}$, $\frac{5}{-12}$, $\frac{-7}{18}$ (18)4 (19)Rohan the toy shop owner sold two tricycles at the same price. Each one was sold for 4 Rs 2200. On one he made a profit of 10%. And on the other he lost 12%. What was the cost of each of the cycle?

Year	2014-2015	2015-2016	2016-2017	2017-2018
Income (in thousands)	100	130	145	120
Expenditure (in thousands)	80	125	130	90

Draw a line segment PQ of 5cm. Construct a line XY parallel PQ at a distance of 6.5cm

The income and expenditure of a family for 4 years are given below:

Represent the data with help of a double bar graph.

(20)

(21)

End of the question paper.

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