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**INDIAN SCHOOL MUSCAT
MIDDLE SECTION
FINAL EXAMINATION 2017-18**



SUBJECT - MATHEMATICS

Code: MYM05091415

CLASS: 7

Time Allotted: 2 ½ Hrs.

15.03.2018

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

SECTION A

Qns		Marks
1.	Area of a parallelogram is 500 m^2 .The base of the parallelogram is 50 m. Find its height.	1
2.	Find the mean of first four odd natural numbers.	1
3.	Write the equation for "twice of a number 'm' added to 14 is 42"	1
4.	Find the ratio of 3km to 300m.	1
5.	The lengths of two sides of a triangle are 7 cm and 10 cm. Between which two numbers can length of the third side fall?	1
6.	In the ΔABC , which is the side included between $\angle B$ and $\angle C$?	1

SECTION B

7.	Out of 40 Students 8 are absent. What percent of students are present?	2
8.	Length of a rectangular field is $5\frac{1}{4}$ m and breadth is $1\frac{1}{7}$ m. Find the area of the field	2
9.	The letters of the word 'EDUCATION' are placed in a box. What is the probability of taking out: a) a vowel b) the letter 'D'	2
10.	Solve $9y - 2 = 7$	2
11.	Check whether 7cm, 13cm and 16cm can be the sides of a triangle. (show the working).	2
12.	$\Delta DEF \cong \Delta PQR$ write the corresponding parts in the following 1) Side DF= ii) $\angle E =$ iii) Side RQ = iv) $\angle P =$	2

SECTION C

13.	An item was sold for Rs. 540 at a loss of 10%. What was its cost price?	3
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14.	The runs scored by 9 players in a cricket match are 7, 27, 34, 48, 64, 74, 86, 55, 19. Find the mean of the data.	3															
15.	If the circumference of a circular disc is 132cm, find its area.	3															
16.	Construct a $\triangle ABC$, such that $AB=4.5\text{cm}$, $BC=6\text{cm}$ and $CA=7\text{cm}$.	3															
17.	Draw a line AB and draw another line CD parallel to AB at a distance of 7 cm from AB .	3															
18.	Mitun subtracted 50 from thrice of the number of notebooks he has. He found the result to be 7. Find the number of notebook he has.	3															
19.	Simplify: $(\frac{2}{3} - \frac{4}{9}) \times 3\frac{2}{5}$	3															
20.	List four rational numbers between $\frac{-4}{5}$ and $\frac{-2}{3}$	3															
21.	Give 3 Rational numbers equivalent to $\frac{-5}{7}$	3															
22.	The hypotenuse of a right triangle is 17 cm long. If one of the two remaining sides is 8 cm, find the length of the other side.	3															
SECTION D																	
23.	Rs.6050 was borrowed at 5% rate of interest p.a. Find the interest and amount to be paid at the end of two years.	4															
24.	Construct a $\triangle XYZ$, if it is given that $XY=6\text{cm}$, $\angle X=30^\circ$ and $\angle Y=100^\circ$ (use ruler and compasses to construct the special angle).	4															
25.	Solve: $4(t + 5) = 28$	4															
26.	a) Add: $\frac{-3}{8}$ and $\frac{-5}{12}$ b) Simplify: $\frac{-8}{13} \times \frac{39}{-4}$	4															
27.	A garden is 90m long and 75m broad. A path 5m wide is to be build all around outside it along its border. Find the area of the path.	4															
28.	The following table shows the number of girls and boys of a class who take part in different sports activities. Draw a double bar graph to represent the given data.	4															
<table border="1"> <thead> <tr> <th>Sport</th> <th>Basketball</th> <th>Badminton</th> <th>Athletics</th> <th>Volleyball</th> </tr> </thead> <tbody> <tr> <td>No. of Girls</td> <td>12</td> <td>10</td> <td>8</td> <td>10</td> </tr> <tr> <td>No. of Boys</td> <td>14</td> <td>12</td> <td>14</td> <td>6</td> </tr> </tbody> </table>			Sport	Basketball	Badminton	Athletics	Volleyball	No. of Girls	12	10	8	10	No. of Boys	14	12	14	6
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No. of Girls	12	10	8	10													
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29.	Find the measure of angle w , x , y and z .	4															

30.

Check if the given two triangles are congruent, if so write the 3 matching parts and the congruence condition used. Write the triangle in symbolic form

4

