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**INDIAN SCHOOL MUSCAT
MIDDLE SECTION
ANNUAL EXAMINATION 2018-19**



SUBJECT - MATHEMATICS

**Code: MXM07
Time Allotted: 2 ½ Hrs.
Max .Marks: 80**

**CLASS: VII
03.03.2019**

General Instructions.

1. The question paper comprises of four Sections, A, B, C and D.
2. You have to attempt all the sections.
3. All questions are compulsory.
4. All answers should be written in the answer sheet provided.

SECTION A

Qns	Marks
1) The standard form of $\frac{14}{-63}$ is _____	1
2) In a _____ triangle, the two altitudes of the triangle are two of its sides.	1
3) $0.04 =$ _____%	1
4) The breadth of a rectangle whose length is 8cm and area is 40cm^2 is _____	1
5) The mode of the data 7,12,15,8,12,7,6,12 is _____	1
6) $2\frac{3}{5} \times 20 =$ _____	1

SECTION B

7) Solve : $3y = 4 (y - 3)$	2
8) Can 5cm, 7cm and 13cm be the sides of a triangle? (show the working)	2
9) Write all six corresponding parts of $\triangle ABC \leftrightarrow \triangle PQR$	2
10) Construct $\triangle BCD$ in which $BC = 4.5\text{cm}$, $CD = 5.6\text{cm}$ and $BD = 4\text{cm}$.	2
11) Find the area of a triangle whose base is 7.5 cm and height is 6cm.	2
12) Subtract : $3\frac{5}{6} - 2\frac{1}{2}$	2

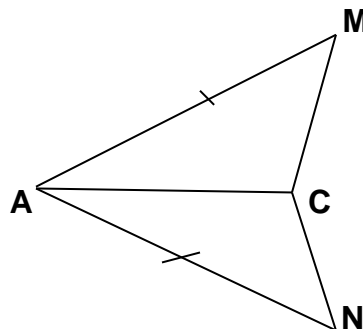
SECTION C

13) The perimeter of a rectangle is 30cm. If its length exceeds its breadth by 3cm, find its length and breadth.	3
14) Arrange $\frac{-3}{10}$, $\frac{4}{-5}$, $\frac{-11}{20}$ in ascending order.	3

15) Find the length of a side AB in the right triangle ABC with sides AC= 13cm, BC = 5cm and $\angle B = 90^\circ$ 3

16) In the adjoining figure if $\triangle AMC \leftrightarrow \triangle ANC$, 3

- (i) AM = _____
- (ii) $\angle MAC =$ _____
- (iii) AC = _____
- (iv) $\triangle AMC \cong \triangle$ _____



17) Construct line CD parallel to line MN at a distance of 5.6 cm. 3

18) A cycle was bought for RS. 6400 and was sold at a loss of 10%. Find its selling price. 3

19) Following are the scores of 10 students in a second periodic test (out of 20)
13,17,20,12,8,14,9,18,19,20.
Find its (i) median (ii) mean score

20) Find the area of a circle whose circumference is 220cm. 3

21) A rectangular garden 150m long and 90m wide has a uniform path of width 5 m all around it. Find the area of the path. 3

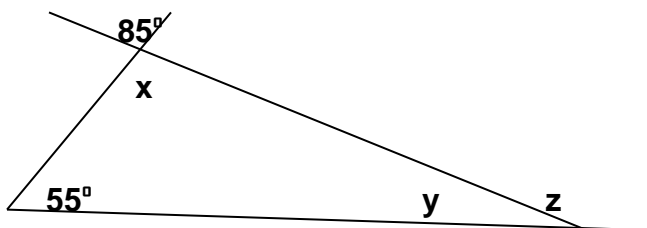
22) (i) Multiply: 4.35×3.2 3

(ii) Divide: $5 \frac{2}{5} \div \frac{9}{5}$

SECTION D

23) Find four rational numbers in between $\frac{-4}{9}$ and $\frac{-1}{3}$ 4

24) Find the measures of the missing angles in the following figure giving reasons. 4



25) Construct $\triangle PQR$ where PQ = 6cm, $\angle P = 90^\circ$, $\angle Q = 60^\circ$. 4

(use ruler and compasses to construct special angles)

26) Find the amount on Rs. 25000 for 2 years at 6% p.a. simple interest. 4

27) Ahmed borrowed Rs. 6000 from his friend and returned Rs. 7500 to him after 2 years. Calculate the rate of interest. 4

28) In a rectangular plot, 100m long and 75m wide, there is a circular well of radius 1.4m and a square shaped water tank of side 8m. Find 4

(i) the area of the plot

(ii) the area of the well

(iii) the area of the tank

(iv) the area of the plot excluding the well and the tank



29) The number of children opting Hindi and French in class 9 in a school from 5 different sections are given below. By taking a Scale 1cm = 5 students, represent the data in a double bar graph. 4

Section	A	B	C	D	E
Hindi	15	30	25	10	20
French	25	20	15	35	25

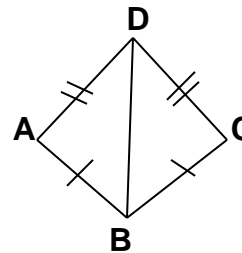
30) In the given figure, write 4

(i) matching parts

(ii) Congruent triangles

(iii) congruence criterion used

(iv) Is $\angle A = \angle C$? Give reason.



End of the question paper.