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



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

CLASS 7
08.03.2020

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

Marks

MULTIPLE CHOICE QUESTIONS-(‘1’ MARKS EACH) – TOTAL – 10 MARKS

- | | | |
|-----|--|---|
| (a) | If ‘n’ is divided by 6 equals 4 then ‘n’ = _____ | 1 |
| | a) 14 b) 24 c) 10 d) 2 | |
| (b) | When a dice is tossed, the probability of an prime number showing up is :_____ | 1 |
| | a) $\frac{1}{6}$ b) $\frac{1}{3}$ c) $\frac{1}{2}$ d) $\frac{1}{4}$ | |
| (c) | The altitude and median be same for a which triangle _____ | 1 |
| | a) Obtuse b) Isosceles c) Acute d) Right | |
| (d) | If the perimeter of a square field is 80 meters, then its area is _____ m ² | 1 |
| | a) 400 b) 160 c) 6400 d) 1600 | |
| (e) | The standard form of $\frac{-7}{-35}$ = ----- | 1 |
| | a) $-\frac{1}{5}$ b) 5 c) $\frac{1}{5}$ d) – 5 | |
| (f) | If PQ=CB, PR =CA, $\frac{P}{C} = \frac{R}{B}$ then $\Delta QRP \cong \Delta CBA$. State the criterion of congruence. | 1 |
| | a) ASA b) RHS c) SAS d) SAS | |
| (g) | 20% of 155 is _____ | 1 |
| | a)155 b)31 c) 55 d) 20 | |
| (h) | If an exterior angle of a triangle is 108° and one of the interior opposite angle is 48°, the other interior opposite angle is _____ | 1 |
| | a) 60° b) 70° c) 80° d) 100° | |
| (i) | If PQ=LM, QR = MN and $\Delta PQR \cong \Delta LMN$, then LN = _____ | 1 |
| | a) PR b) MN c) QR d) LM | |
| (j) | The product of $\frac{9}{16}$ and $\frac{8}{27}$ is _____ | 1 |
| | a) $\frac{1}{3}$ b) 3 c) 6 d) $\frac{1}{6}$ | |

(‘1’ MARK QUESTION) – TOTAL – 10 MARKS

- | | | |
|-----|--|---|
| (k) | A machine is purchased for Rs 1700 and sold for Rs 1870. Find its profit percentage? | 1 |
|-----|--|---|

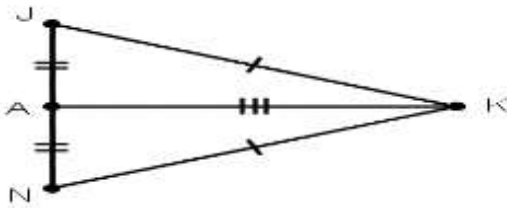
- (l) What is the side included between the angles M and N of ΔMNP ? 1
- (m) Solve : $\frac{5}{9}x = 5$ 1
- (n) Find the area of a isosceles right triangle of equal sides 40 cm each. 1
- (o) Find the mode of the given data: 1, 6, 4, 7, 6, 9, 2, 3, 6, 5, 6 1
- (p) Find the quotient : $183.6 \div 9$ 1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

Q.NO

SECTION 'B'-('2' MARKS EACH) - TOTAL - 12 MARKS

Marks

- (2) The sum of two rational numbers is -4 . If one of them is $\frac{-9}{7}$ find the other. 2
- (3) The area of the parallelogram is 620 cm^2 and one of its side is 20 cm. Find the corresponding altitude. 2
- (4) Whether 5.4 cm, 2.8 cm and 3.7 cm be the length of the sides of a triangle? 2
- (5) After 15 years, sona will be four times as old as she is now. Determine her present age. 2
- (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. 2
- (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) A number is multiplied by 3 and 7 is taken away from the product to get the answer 17. What is the number? 3
- (11) Draw a ΔPQR , in which $QR = 5.8 \text{ cm}$, $\angle Q = 70^\circ$ and $\angle R = 60^\circ$ 3

- (12) Geeta bought $5\frac{1}{2}$ kg potatoes, $1\frac{1}{4}$ kg tomatoes and $3\frac{1}{2}$ kg onions .Find the total weight of vegetables purchased by Geeta. 3
- (13) A basket contains 350 eggs. If 12% of the eggs are rotten, find the number of eggs, good enough to be sold. 3
- (14) The runs scored by 10 players in a cricket match are: 52, 78, 80, 8, 106, 0, 49, 23, 36 and 18. Find the mean and the median of the following data. 3
- (15) If $\Delta ABC \cong \Delta PQR$ under the correspondence $ABC \leftrightarrow PQR$, write all the corresponding congruent parts of triangles 3

SECTION 'D'-('4' MARKS EACH) – TOTAL – 24 MARKS

- | Q.NO | <u>SECTION 'D'-('4' MARKS EACH) – TOTAL – 24 MARKS</u> | Marks |
|-------------|---|--------------|
| (16) | A rectangular park is 45m long and 30m wide. A path of 2.5m is constructed outside the park. Find the area of the path. | 4 |
| (17) | Two towers of height 28m and 36m are built at a distance of 15m. Find the distance between the tops of the towers. | 4 |
| (18) | Write the rational numbers in ascending order. $\frac{-4}{9}$, $\frac{2}{-3}$, $\frac{-5}{18}$, $\frac{7}{-12}$ | 4 |
| (19) | Rohan the toy shop owner sold two tricycles at the same price. Each one was sold for 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? | 4 |
| (20) | Draw a line segment PQ of 5.5cm. Construct a line XY parallel PQ at a distance of 7cm | 4 |
| (21) | The income and expenditure of a family for 4 years are given below:
Represent the data with help of a double bar graph. | 4 |

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

End of the question paper.