MCQ mats 2021……

1] If tan[A/2] = 1/ find sinA

2] Simplify 2cos.cos

3]simplify cos[] + cos []

4]- =

5] Simplify + =

6] The diagonals of a rhombus are 7.5 cm and 12 cm. Find its area.

7] The adjacent sides of a parallelogram are 12 cm and 10 cm. One diagonal is 8

cm. Find the area of the parallelogram.

8] Diagonals of a kite are 12cm and 13 cm in length. Find the area of the kite

9] The two parallel sides of a trapezium measures 50 m & 20 m respectively. Its

Altitude is 50 m. find its area.

10] The area of rectangle with one side 8 cm is 172 cm sq. Find the length of the other side.

11] A park is 480 m long by 320m wide. It is decided to double its area retaining the rectangular shape by adding strips of equal width to one end and one side. Find the width of the strip.

12] Area of rhombus is336 cm2 & one diagonal is 14 cm. Find the length of the side

13] The two parallel sides of trapezium measures 58 m & 42 m respectively. The other two sides are equal each being 17 m. Find its area.

14] The shape of the top surface of a table is a trapezium. Find its area if its parallel sides are 1m and 1.2 m and perpendicular distance between them is 0.8

15] If sum of two parallel sides of a trapezium is 232 cm and its area is 928 cm.sq

.Find its altitude.

16] The area of trapezium is 14950 m.sq. One of its parallel side is 60 m. Its altitude is 230 m. find the longer side

17] The height of a trapezium is 4 cm .and its area is 30 cm.sq

. If the greater of the two parallel sides is double the smaller side, find the lengths of parallel sides.

Ans: 5 cm ; 10 cm

18] Find the edges of a rectangular solid whose volume is

210 cm sq, surface area is 214cm2 and the area of base is 42cm sq.

19] Find the area of rhombus if its side is 13 cm and one of its diagonal is 10 cm.

Ans: 120 cmsq.

20] Area of rhombus is 336 cm2 & one diagonal is 14 cm.Find the length of the side. Ans: 25 cm

21] The area of a trapezium is 14950 m.sq. One of its parallel

side is 60 m. Its altitude is 230 m. find the longer side.

Ans: 70 m