

# Grade :12 CYCLE TEST – 1 Date: 12 .07.22

# Marks: 20 MATHEMATICS (041) Time : 40min

**Each question in section A carries two marks**

**Each question in section b carries three marks**

**Each question in section c carries five marks**

**Students have to answer all the questions.**

**Section A**

1. Differentiate : e3xcos3x with respect to x

2. Find when 2x+3y=siny

3. Differentiate : xxcosx

**Section B**

4. Find if y=

5. a) Find the derivative of , .

(or)

b) Differentiate tan-1 ,

6. Find the derivative of

**Section C**

7. a) If y = , then find

(or)

b) Find when y= xcotx +

**ALL THE BEST**