GATITU SECONDARY SCHOOL, P.O. BOX 327 – 01030, GATUNDU.

FORM 4 MATHEMATICS   TUNE – UP EXAMINATION.   T3ERM 2 2014.

1. Use the matrix method to solve the pair of simultaneous equation.   (4mks

$$2x - y = 3$$
$$3x + 2y = 1$$

2. Use the data given below to fine the mean, media and the mode.   (6mks

X	0	1	2	3	4	5	6
F	1	3	9	22	18	5	2

3.   A point P is 65km from Q on a bearing 068o. Point R is 50km from P on a bearing 155°.
                                                                    (6mks
Find: - i) the distance of R from Q
            ii) The bearing of R from Q

4.   given that cos   = ¼ and   is acute, find without using tables
                                                    (6mks
a)   Sin

b)   Tan ^{2}

c) $\dfrac{1}{\text{Sin}^2}$

5. Find the simple interest on sh. 680 in 4 years 5% p.a.   (3mks

6. Divide 246 in the ratios 1 ½: 2: 3 1/3   (3mks

7. Factorise completely 9 xs2 − 81   (2mks

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