## Department Of AHS

Final Term Summer-2020

| Subject: | Mathematics-1 | Duration: | 240 Minutes |
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| Instructor: Anwar Shamim | Total Marks: | 50 |  |

Note: Attempt all questions. Manage your time properly.
Q.No. 1
(10+10)
(a) Solve the system with two variables by Cramer's rule.

$$
\begin{aligned}
& X-2 y=1 \\
& 3 X+y=10
\end{aligned}
$$

(b) Solve the system with two variables by Inversion method.

$$
\begin{aligned}
& X-3 y=0 \\
& 2 X+y=7
\end{aligned}
$$

Q.No.(02)

Solve the Following Quadratic Equation by Using Factorization Method
(a) $4 \mathrm{Y}^{2}+15 \mathrm{Y}+6=4 \mathrm{Y}$
(b) $X^{2}+15 X=-50$
(c) $\mathrm{Y}^{2}=6 \mathrm{Y}+27$

Solve the Following Quadratic Equation by Using Factorization Method.
(a) The sum of two numbers is 27 and their product is 50 .Find the numbers.
(b) The Three sides of a right angled triangle are $X, X+1$ and 5.Find $X$ and the area, if the longest side is 5 .

