## Department Of CED

## Summer-2020

Subject: Applied Mathematics-I
Instructor: Anwar Shamim
Duration: Minutes

Semester: Summer Semester
Note: Attempt all questions. Manage your time properly.
Q.No. (01)

Find the Integration of the following.
a. $\int\left(x^{2} e^{x}\right) d x$
b. $\int\left(5 x^{2}+x^{-2}+15\right) d x$
C. $\int\left(x^{3}+x^{-2}+5\right) d x$
Q.No. (02)
( $3+3+4$ )
Find the solution of the following.
a) If $56 \%$ of the homes in a colony have a car. What \%age of homes does not have a car?
b) There are 1029 students in a school. 504 of them are girls. Find the ratio of boys to the girls.
c) Amna scored 46 out of 50 in a math test, 64 out of 75 in a chemistry test and 72 out of 80 in a physics test.In which subject did she perform best?
Q.No. (03)

Find the derivatives of the following.
a) $S=-4 t^{-5}+4 / t+5 t+1 / 4$
b) $Y=x^{5}+3 x^{3}-x^{2}+4$
c) $T=6 x^{-3}+x^{3}+5 x-2$

