

Department Of Civil Engineering

Mid Term Examination (Fall Semester 2020)

Subject: Instructor: Semester:	Applied Mathematics-1 Anwar Shamim B.Tech 1 st Semester	Duration:180 MinutesTotal Marks:30
Note: Attempt	all questions. Manage your time properly.	

Q.No. 1

(a) Solve the system with two variables by Inversion method. X - 2y=1 3X +y=10
(b) Solve the system with two variables by Inversion method.

X- 3y=0 2X +y=7

Q.No.(02)

Find the Integration of the following.

- a. $\int (x^2 e^x) dx$
- b. $\int (5x^2 + x^{-2} + 15x + 3) dx$
- ^{c.} $\int (5x^2 + x^{-2} + 15) dx$
- d. $\int (x^{-3} \log x) dx$
- e. $\int (x \log x) dx$

Q.No.(03)

Find the Integration of the following

- a. $z^2-16z+61=2z-20$
- b. $12x^2 = 25x$
- c. u²-5u-14=0
- d. z2–11z+24=0
- e. $w^2 + 13w + 12 = 0$

(02+02+02+02+02)

(5+5)

(02+02+02+02+02)