## **North South University**

Mat-350, Sec- 7, 8 & 16, Fall-2021 Quiz-4, Total Marks-15, Time-20 mins

Name:	Id#	Date# 04/01/2022
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Q1. Define Fourier Series. Find the Fourier sine series of the function obtained by passing the voltage

$$v(t) = V_0 \sin(kkk\pi t)$$

through a half-wave rectifier that clips the negative half-waves.

(Where  $k \neq 0$  is the 4<sup>th</sup> digit of your student Id#. If k = 0 then choose k = 1.)