



Spring 2022

Quiz- 1 [Model – B]

Time Allowed: 20 min

PHM 212s: Special Functions [5 Marks]

Name:

ID:

G:

S:

Question 1:

Evaluate the following integral in terms of Gamma function.

$$\int_{-\infty}^{\infty} \frac{1}{(4 + x^4)^3} dx$$

[2 marks]

Question 2:

Find a series solution for the following D.E in the power of x.

$$(2x^2 + 1) y'' + 6xy' + 2y = 0$$

[3 marks]