

ITS323 – Quiz 2

Name: _____

ID: _____

Mark: _____ (out of 10)

Question 1 [3 marks]

- a) Draw a plot of the following signal in the frequency domain. [2 marks]

$$s(t) = 5 \sin(4000 \pi t) + \frac{5}{3} \sin(12000 \pi t) + \sin(20000 \pi t)$$

- b) What is the absolute bandwidth of the signal? [1 mark]

Question 2 [1 mark]

Parabolic dish antennas that operate at a high frequency have a lower gain than those of the same size that operate at a low frequency TRUE FALSE

