

**City University, Department of Business Administration, BBA Program**  
**MAT201: Business Mathematics**  
**Quiz#01 (Summer-2021)**

Time: 20 mins

Mark: 10

**Q-1: Mark (T) for true or (F) for false, Give the logic behind the answer: (05x1=05)**

- (a) The horizontal line through (5, 6) has the equation  $Y=5$ .
- (b) The slope of the X-axis is undefined.
- (c) If Y is units of output and X is man-hours worked, and if  $Y=3X$ , then output per man-hour is constant.
- (d) A line segment contained entirely in the second quadrant necessarily has a negative slope.
- (e) A line segment that is very, very close to the vertical has a slope number that has large absolute value

**Q-2: (3+2=05)**

- i) The cost of setting the type for a sales brochure is \$12. In addition, the cost of paper and printing is 4 cents per copy. Write a formula (equation) that will give in dollars the total cost T of making n copies. Find the cost of printing 5000 copies of sales brochure.
- ii) If a company sells x units of a product at \$3 per unit, write the expression for R, the total revenue received for the x units. Interpret the slope and intercepts of this line.