THE FEDERAL POLYTECHNIC BIDA COMPUTER SCIENCE DEPARTMENT

SECOND SEMESTER EXAMINATION 2020/2021 SESSION

TITLE: <u>COMPUTER GRAPHICS AND ANIMATION</u>CODE: COM 422

DATE: 30th-08-2021 TIME: 11.30-2.30PM DURATION: 3 HRS

CLASS: HND II COMPUTER SCIENCE EXAMINERS: ALAO, K. A.

INSTRUCTION: ANSWER QUESTIONS (1, 2, 3) AND ANY OTHER TWO QUESTIONS QUESTION ONE

- (a) Discuss to authenticate the assertion that Computer Graphics is said to be useful in all aspects of human endeavors.
- (b) The work of Ivan Sutherland was affirmed to be the origin of Computer Graphics, briefly elucidate. Hence, discuss the current and the very near future technological advancement of Computer Graphics.

QUESTION TWO

- (a) Explain the formation of images/pictures with respect to computer graphics.
- (b) Discuss the classification of computer graphics taking into cognizance their images/pictures characteristics. Hence, what are the major causes of Pixelation?

QUESTION THREE

- (a) With the aid of a suitable diagram, describe a Two-Dimensional (2D) and three-dimensional (3D) Cartesian Coordinates.
- (b) Describe how to determine the coordinates of a point and find the position/location of a point on the Cartesian coordinate. Hence, with the aid of the diagram below, determine the coordinates of points A and B.

