AFE BABALOLA UNIVERSITY, ADO-EKITI, EKITI STATE, NIGERIA
COLLEGE OF ENGINEERING
DEPARTMENT OF CHEMICAL AND PETROLEUM ENGINEERING

BACHELOR OF ENGINEERING ASSIGNMENT I

ENG 282: Engineering Mathematics II

Session: 2019/2020 **Semester:** Second **Unit:** 3 **Duration:** 3 days

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Instruction: Answer all the questions.

Question 1 [20 Marks]

(a) Define a dynamic equation.

(b) An engineering system is described by the expression given in Equation (1). Develop a dynamic model in form of an ordinary differential equation for the system.

$$y = Ate^{t} \tag{1}$$