ELIZADE UNIVERSITY
FACULTY OF BASIC AND APPLIED SCIENCES
DEPARTMENT: PHYSICAL AND CHEMICAL SCIENCES
PROGRAMME: APPLIED GEOPHYSICS EXAM TITLE: DEGREE EXAMINATION
COURSE CODE & TITLE: AGP 102 – Introduction to Geophysics
TIME ALLOWED: 2 Hours SEMESTER/SESSION: 2nd / 2020/2021
INSTRUCTIONS: Write your matric number on the question paper and cover page of the exam booklet. Answer any **THREE (3)** questions of your choice.

HOD's SIGNATURE

1. (a) Explain geophysics as an earth science. Give **two (2)** reasons you would prefer to use geophysics as a tool to study the subsurface earth.
   (b) Discuss geophysics as an interdisciplinary field of study.
   (c) Geophysics solves geological problems, explain.

   (20 marks)

2. (a) What is your view of who a geophysicist is?
   (b) With emphasis on area of specialization and relevant investigation methods, write on any **three** of the following: (i) seismologist (ii) petroleum geophysicist
   (iii) mining geophysicist (iv) environmental geophysicist.

   (20 marks)

3. (a) Distinguish between natural field and artificial field geophysical methods.
   (b) Describe **four (4)** societal needs that geophysics can address.
   (c) List **three (3)** background knowledge required to be a professional geophysicist.

   (20 marks)

4. (a) List **five (5)** geophysical methods and state the physical parameter measured by each of the methods.
   (b) Highlight **one (1)** application area of each method listed in 4(a) above.
   (c) Briefly explain what radiometric and well-logging methods are used for.

   (20 marks)