# NATIONAL OPEN UNIVERSITY OF NIGERIA

## 91, Cadastral Zone, University Village. Nnamdi Azikwe Express way, Jabi Abuja

### Faculty of Education, Department of Science Education.

| | |
|---|---|
| **EXAMINATION:** | **2021_1** |
| **COURSE CODE:** | **EDU740** |
| **COURSE TITLE:** | **MATHEMATICS METHODS** |
| **CREDIT UNITS:** | **2** |
| **TIME ALLOWED:** | **2 HOURS** |
| **INSTRUCTION:** | **ATTEMPT QUESTION ONE AND ANY OTHER TWO** |

1.a) Use diagrams to illustrate the following instructional materials.

      i) Abacus    ii) Coin     iii) Geo-board    iv) Spring balance    v) Cube **(10marks)**

   b) Identify two (2) Mathematics concepts you can use each of them to teach. **(20marks)**

.
2a). A well stated behavioural objective has 5 components. State one (1) of such behavioural objective. ((**2½marks)**

b). Use a table to show the components of your behavioural objective in 2a above. **(10marks)**

c). Explain the five components that constitute parts of a well stated behavioural objective. **(7½marks)**
                 **TOTAL=20marks**

3) Mathematics concepts are cognitive laden compared with other domains of learning. However, it is very important to promote other domains of learning. Select a Mathematics concept in any class. Based on the concept, list five (5) psychomotor skills that you will assess in the students.       **(20marks)**

4) Explain the Piagetian Concrete Operational stage of cognitive development and its usefulness to Mathematics teaching and learning. **(20marks)**