JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY

SCHOOL OF EDUCATION HUMANITIES AND SOCIAL SCIENCES

DEPARTMENT OF SPECIAL NEEDS EDUCATION AND EARLY CHILDHOOD DEVELOPMENT

UNIVERSITY EXAMINATION FOR THE DIPLOMA IN SPECIAL NEEDS EDUCATION

2ND YEAR 2ND SEMESTER 2017/2018 ACADEMIC YEAR

MAIN CAMPUS SPECIAL EXAM/SPECIAL RESITS

COURSE CODE: ESN 2221

COURSE TITLE: Specific Methods of Teaching Mathematics

EXAM VENUE: **STREAM:**   **DIP. SNE**

DATE: **EXAM SESSION:**

TIME: 1 ½ HOURS

Instructions:

1. **Answer Question ONE (COMPULSORY) and ANY other 2 questions**
2. **Candidates are advised not to write on the question paper.**
3. **Candidates must hand in their answer booklets to the invigilator while in the examination room.**

1 (a) Explain the following terms

      (i) Curriculum   (2Marks)

      (ii) Syllabus   (2Marks)

      (iii)Scheme of work   (2Marks)

      (iv)Lesson plan   (2Marks)

b) Discuss the importance of using teaching /learning resources when teaching mathematics lesson?   (8Marks)

C) Identify three factors a teacher would consider when deciding teaching / learning aid to use in a mathematics lesson?   (3Marks)

ii) Discuss three key issues a mathematics teacher put in consideration when deciding what teaching / learning resource?   (6Marks)

d) Identify five categories of teaching / learning resources?   (5Marks)

2 a) Discuss any five methods / strategies of teaching mathematics for young children?   (10 Marks)

b) (i) Define Curriculum adaptation?   (2 Marks)

ii) Discuss Curriculum adaptation various?   (8 Marks)

3. Using the topic addition on whole numbers, prepare a one week scheme of work for STD 3?   (20 Marks)

4 a) From question three above, prepare a lesson plan to be used to teach the first lesson that week.   (10 Marks)

B (i) Define Curriculum differentiation.   (2 Marks)

  (ii) Discuss various Curriculum differentiation.   (8Marks)

5 (a) i) Explain why introduction is very important in a lesson.   (4Marks)

        ii) Discuss three key point a teacher must consider when developing a mathematics lesson.

                                                                        (6Marks)

5 (b) In a test a teacher gave multiple choice question to a class as shown below:

   A sales agent earns a basic salary of 40,000. He is also paid a commission of 4% of the value of the item he sells Ksh: 200,000. In one month he sold 20,000 items @ ksh 300 each what was his total earning that month?

    A. Ksh 64,000
    B. Ksh 16000
    C. Ksh 56000
    D. Ksh 48000

Show a chalk board layout and indicate how each distraction was obtained.
                                                                        (10Marks)