

UNIVERSITY OF CAPE COAST
COLLEGE OF EDUCATION STUDIES
SCHOOL OF EDUCATIONAL DEVELOPMENT AND OUTREACH
INSTITUTE OF EDUCATION

FOUR-SEMESTER BACHELOR OF EDUCATION PROGRAMME
THIRD YEAR, END-OF-FIRST SEMESTER EXAMINATION, APRIL, 2021

APRIL 6, 2021

METHODS OF TEACHING PRIMARY
SCHOOL MATHEMATICS

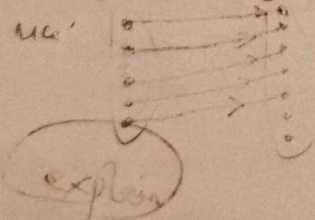
9:30 AM – 11:00 PM

SECTION B

Answer any TWO questions from this section.

1. a. Define primary and secondary mathematics concepts, giving 2 examples in each case. [3 marks]
b. Explain **any two (2)** Mathematical Schemas and explain their functions. [6 marks]
c. What is the difference between a mathematical schema and a mathematical concept? [3 marks]
d. State **four (4)** reasons a pre-school child should be taken through pre-number activities. [8 marks]

2. a. Why do students' early notion about the concept of number begin with natural numbers? [2 marks]
b. Why do we teach children number rhymes and songs in mathematics? [2 marks]
c. Distinguish between a number and a numeral. [5 marks]
d. Out of the 45 students in the class, Kofi came 5th in the mathematics test and was therefore promoted to class six. Identify which of the numbers used above can be described as cardinal, ordinal or nominal. Give a reason to your answer in each case. [6 marks]
e. Describe how you would help a B1 learner who **cannot** count to discover that there are more objects in one group than the other. [5 marks]



3. a. Define:

- i. Odd
- ii. Even
- iii. Prime numbers. Give three examples in each case.

[6 marks]

b. Describe and state the purpose of the 'Sieve of Eratosthenes'.

[6 marks]

c. Describe, step by step, how you will assist a B4 student to find the

- i. Highest Common Factor (HCF) and
- ii. Least Common Multiple (LCM) of 12 and 18.

[8 marks]

4. a. Draw to show a B4 learner the common fraction $1\frac{2}{3}$ using:

- i. a whole object
- ii. A number line

[2.5 marks]

[2.5 marks]

b. Describe with pictorial representation(s), how you would help a B6 pupil to find the sum

$$\frac{1}{4} + \frac{2}{3}$$

[5 marks]

c. The concept of ratio and subtraction is about different comparisons. Explain to show the differences to your B6 learners.

[5 marks]

d. Describe to your students in B6 an activity you would do in class to enable them help two business partners, Ayesha and Kwabena to share a profit of GH25,000.00 in the ratio of 1:4 respectively.

[5 marks]

5. a. Prepare a questionnaire you would use to help your B6 class of 20 students to obtain data about themselves in the following areas:

- i. birthdays,
- ii. birth months,
- iii. parental status,
- iv. heights,
- v. masses, and
- vi. Number of friends.

[6 marks]

b. Describe how you will lead your 20 B1 or B2 students to represent their birth months concretely in class.

[7 marks]

c. Describe how you would help your B4 students to represent (semi-concretely) the data below about their test scores in mathematics using a bar graph.

1	4	3	5	2	9	6	4
4	6	7	10	6	3	8	6
2	5	8	4	6	5	7	3
6	7	4	3	10	8	9	6
3	10	6	2	7	4	5	1

[7 marks]

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COLLEGES OF EDUCATION
FOUR-YEAR BACHELOR OF EDUCATION (B.ED)
THIRD YEAR, END-OF-FIRST SEMESTER EXAMINATION, APRIL, 2021

APRIL 9, 2021

METHODS OF TEACHING PRIMARY
SCHOOL SCIENCE

9:40 AM – 11:00 AM

SECTION B
(60 Marks)

Answer Question 1 and any other TWO questions from the Section.

1. Prepare a **30-minute** lesson plan for Basic Stage 1 (B. S. 1) using the **daily lesson plan template**. (30 marks)

You are to use the following information in preparing the lesson plan:

Class size:	40
Strand:	HUMANS AND THE ENVIRONMENT
Sub-strand:	PERSONAL HYGIENE AND SANITATION
Content standard:	Recognize the importance of personal hygiene
Indicator:	Know the need for and how to clean the teeth
Performance Indicator:	Demonstrate the right method of brushing the teeth.

- 2.
- a. State any **two** disadvantages of Activity Method of teaching Science. (2 marks)
 - b. Tabulate any **one** difference between teaching and learning. (2 marks)
 - c. Briefly describe the following components of a lesson plan
 - i. Indicator (2 marks)
 - ii. Exemplar (2 marks)
 - d. Give **three** reasons why a teacher should ask questions. (3 marks)
 - e. Describe any **two** ways you will use to manage your learners' learning environment. (4 marks)

- 3.
- a. State **three** phases of Science lesson plan. (3 marks)
 - b. State **one** difference between measurement and evaluation. (2 marks)
 - c. What is improvisation by construction? (2 marks)
 - d. Describe any **two** strategies you will use to manage your learners' behaviour in a Science class. (4 marks)
 - e. Describe any **two** good practices that a primary science teacher must consider after every lesson? (4 marks)
- 4.
- a. Mention **two** qualities of a good learner? (2 marks)
 - b. State **one** difference between classroom management and behaviour management. (2 marks)
 - c. Describe the pre-active phase of teaching. (3 marks)
 - d. Give any **two** conditions for using Demonstration Method of teaching Science. (4 marks)
 - e. Explain any **two** problems that are likely to arise if a teacher taught a science lesson without a lesson plan. (4 marks)
- 5.
- a. What is Assessment as learning? (3 marks)
 - b. Give **two** examples of each of the following:
 - i. Science Process (1 marks)
 - ii. Science Product (1 mark)
 - c. Give **four** reasons why you think it is important to introduce a science lesson. (2 marks)
 - d. Mention **two** effects of traditional beliefs on Science teaching. (4 marks)
 - e. Describe **two** major problems of teaching science in primary schools in Ghana. (4 marks)

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THIRD YEAR, END-OF-FIRST SEMESTER EXAMINATION, APRIL, 2021

APRIL 12, 2021

PRINCIPLES AND METHODS OF
TEACHING SOCIAL STUDIES

9:30 AM – 11:00 AM

SECTION B

Answer any TWO questions from this section.

- a. Explain the concept “Principles”. [4 marks]
 - b. Examine **four** principles that should guide the teaching of Social Studies lessons. [16 marks]
 - a. What are community resources? [4 marks]
 - b. State and explain **four** advantages of utilizing community resources in teaching. [16 marks]
- Examine **five** factors that influence the choice of a particular method by a Social studies teacher. [20 marks]
- a. Explain ‘Discussion’ technique of teaching and learning of Social Studies. [4 marks]
 - b. Examine **four** Conditions under which a teacher will use “Discussion” as a teaching Technique in the teaching and learning of Social Studies. [16 marks]

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THIRD YEAR, END-OF-FIRST SEMESTER EXAMINATION, APRIL, 2021

APRIL 14, 2021 IN-SERVICE EDUCATION AND TRAINING 9:30 AM – 11:00 AM

SECTION B

Answer any TWO questions from this Section.

- a. In-Service Education and Training (INSET) is faced with numerous challenges. With relevant examples, discuss **two** of these challenges.
- b. Describe **two** ways in which the challenges enumerated in question 1 (a) can affect the professionalism of teachers, if they are not resolved.

Explain **four** factors that necessitated the shift from the conventional INSET to the school-based type.

Discuss **four** factors that a head teacher would consider when choosing a model of INSET for the staff in his school.

You are to give a talk to a group of newly appointed training officers on the topic 'The Processes Involved in the Organisation of INSET'. Discuss **four** main areas that you would present to the trainees.

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THIRD YEAR, END-OF-FIRST SEMESTER EXAMINATION, APRIL, 2021

APRIL 13, 2021

METHODS OF TEACHING ENGLISH AT
THE PRIMARY SCHOOL LEVEL

9:40 AM – 11:00 AM

SECTION B
(40 marks)

Answer TWO questions from this section; Question 1 and any other ONE question.

1. You are to teach a composition lesson on the topic "My School" to a B5 class. Using the template provided (template for planning daily lessons), prepare a lesson plan for the lesson. (The duration is 60 minutes.) (20 marks)
2.
 - a. Discuss **three** implications of the Innatist and the Cognitivist theories of second language learning. (3 marks x 3)
 - b. State **three** ideas of the Constructivism theory of second language learning. (2 marks x 3)
 - c. In learning a second language, the learner's task is three-fold. List the tasks. (1 mark x 3)
 - d. What is the difference between a foreign and a second language? (2 marks)
3.
 - a. What are the basic features of an "Upper Emergent" reader? (8 marks)
 - b. List **four** skills associated with this level. (4 marks)
 - c. List **four** basic characteristics of this level. (4 marks)
 - d. List **four** purposes of the Directed Reading Activity (DRA) as a comprehension strategy. (4 marks)
4.
 - a. Mention and discuss **three** pre-reading activities and indicate the skill each of them is intended to develop. (3 marks x 3)
 - b. What is the phonic method of teaching reading? (3 marks)
 - c. Discuss **three** activities associated with this method. (2 marks x 3)
 - d. State **two** merits of this method. (2 marks)