



UNIVERSITY OF GHANA

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DEPARTMENT OF TEACHER EDUCATION  
SCHOOL OF EDUCATION AND LEADERSHIP  
COLLEGE OF EDUCATION

END OF YEAR TWO SEMESTER TWO EXAMINATIONS, 2023  
B.ED. PROGRAMME

COURSE CODE: TEUP 206

COURSE TITLE: TEACHING AND ASSESSING MATHEMATICS FOR UPPER  
PRIMARY (INTRODUCTORY)

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**Instruction:** Answer all questions in Section A and any three in Section B.  
Time: 2 hours

**SECTION A**

[25 Marks]

Answer all the questions in this section.

1. The word “curriculum” is derived from a \_\_\_\_\_ word.
  - A. Aramaic
  - B. French
  - C. Greek
  - D. Latin
2. In the new curriculum 2 in the ANNOTATION B4.1.2.1.1 stands for \_\_\_\_\_.
  - A. Strand
  - B. Sub-strand
  - C. Class
  - D. Learning indicator
3. One of the following is used to evaluate, measure, and document the academic readiness, learning process, and skill acquisition \_\_\_\_\_.
  - A. Profile dimensions
  - B. Table of specifications
  - C. Assessment tools
  - D. Indicators

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4. In differentiating general aims, specific aims, and core competencies, how do you describe the one that appreciates the usefulness, power, and beauty of mathematics?
- A. General aims
  - B. Specific aims
  - C. Core competencies
  - D. Teaching assessment
5. One of the following is not a good attitude of an effective teacher.
- A. listener
  - B. Disciplined
  - C. Patience
  - D. Snobbish
6. A central aspect of this curriculum is the profile of learning behavior dimensions that should be the basis for instruction and assessment. Which profile dimension tests the ability of the learner to translate, rewrite, paraphrase, give examples, generalize, estimate or predict consequences based on a trend?
- A. Analysis
  - B. Application
  - C. Comprehension
  - D. Creation
7. The curriculum has been designed using unique features to make referencing easy. How do you describe the unique features of the topics the content is organized?
- A. The strands
  - B. Sub-strands
  - C. Content standards
  - D. Indicators
8. In the unique features for making references, as used in the standard-based curriculum, what name is given to a clear outcome or milestone that learners must exhibit each year to meet the curriculum's expectations?
- A. Strands
  - B. Sub-strands
  - C. Content standards
  - D. Indicators

9. The foundations of the curriculum based on NTECF strategy, which one deals with how learning should be organized in a step-by-step process for more emphasis?
- A. Behaviourism.
  - B. Cognitivism.
  - C. Constructivism.
  - D. Developmentalism.
10. The ability to understand, judge, do, and use mathematics in a variety of intra- and extra-mathematical contexts and situations in which mathematics plays or could play a role is called \_\_\_\_\_
- A. aim.
  - B. competency.
  - C. objective.
  - D. Skill.
11. In guiding learners to determine basic multiplication facts in solving  $3 \times 4$  using concrete materials, learners form \_\_\_\_\_
- A. 4 groups of 3 items.
  - B. 3 groups of 4 items.
  - C. 3 groups of 2 and 2 items.
  - D. 4 groups of  $1\frac{1}{2}$  and  $1\frac{1}{2}$  items
12. This type of curriculum sets the benchmark where teachers and students all go all-out in the teaching and learning process to reach that standard. Which type of curriculum is this?
- A. Objective-based curriculum
  - B. Standards-based curriculum
  - C. SBC-based curriculum
  - D. National-based curriculum
13. In the many variations of principles, formulas, numbers and numerals, when do we talk of whether objects are less or more?
- A. Comparing and ordering
  - B. Even and odd numbers
  - C. Prime and composite
  - D. Multiples and factors

14. What is process skill as mentioned in learning domains in the standard-based curriculum?
- A. Knowledge gained by learners.
  - B. Management of a classroom lesson.
  - C. The movement from one strand to the other.
  - D. Process of imparting knowledge to learners.
15. In teaching the number system, you have to start from one stage to another with the use of teaching and learning materials. Why are teaching and learning materials important?
- A. To enable students to manufacture them.
  - B. To enable students to design them.
  - C. To enable students to apply them.
  - D. To enable students to use them.
16. Assessment may be formative, summative, diagnostic, or evaluative depending on its purpose. The following modes serve as Assessment for Learning EXCEPT \_\_\_\_\_
- A. End of term examinations
  - B. Class exercises.
  - C. Class tests (written, oral, aural, and/or practical).
  - D. Class Assessment Task (CAT).
17. In the mode of assessment, the following tools form part of Assessment as Learning for mathematics EXCEPT \_\_\_\_\_
- A. portfolio
  - B. journal entries.
  - C. project work
  - D. end-of-year exam.
18. A good assessment tool for mathematics teaching and learning must contain the following characteristics EXCEPT \_\_\_\_\_
- A. reliable
  - B. valid.
  - C. stranded
  - D. Standard

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19. How can we determine that counting in local languages in Ghana is done in base ten?
- A. The use of the digits
  - B. The changing nature of digits
  - C. The sound in the pronunciation
  - D. Arrangement of the numbers
20. In the national teachers' standards, a community of practice is under professional \_\_\_\_\_
- A. development.
  - B. practice.
  - C. knowledge.
  - D. values and attitude.
21. Which of the following forms of assessment is summative in nature?
- A. Assessment as learning
  - B. Assessment for learning
  - C. Assessment in learning
  - D. Assessment of learning
22. The ultimate aim of assessing the numeracy skills of your learners is to \_\_\_\_\_
- A. compare their performance.
  - B. grade their performance.
  - C. improve teaching and learning.
  - D. report students' performance to parents.
23. Which of the following is **NOT** appropriate material for teaching the addition of three-digit numbers?
- A. Abacus
  - B. Bundled sticks and loose ones
  - C. Cuisenaire rod
  - D. Multi-base block
24. The plenary section of the learner plan is basically where \_\_\_\_\_
- A. introduction of a lesson is done.
  - B. methodological transformation is done.
  - C. conclusion of the lesson is done.
  - D. the activities of the lesson are done.
25. A mathematical activity where a number is assigned to an attribute is referred to as \_\_\_\_\_
- A. Calculation.
  - B. Comparing.
  - C. Evaluation.
  - D. Measurement.



**SECTION B**

Answer THREE questions from this section.

- 1a. Explain the principles underlying the use of the following in mathematics classroom. **12marks**  
i. Collaboration  
ii. Equity  
iii. Inclusivity
- 1b. How will you guide your Basic school learner to find the sum of  $\frac{2}{5}$  and  $\frac{1}{4}$  using Cuisenaire' s rods? **8marks**
- 1c. Explain the term microteaching **5marks**
- 2a. Mention and explain any 5 core competencies that upper primary school teachers must develop in learners. **20marks**
- 2b. Explain the term an assessment tool, giving three examples. **5marks**
- 3a. How would you explain to a Basic school learner that  $\frac{2}{3} > \frac{1}{2}$  **11marks**
- 3b. State and explain **any three (3)** characteristics of a good assessment tool **9marks**
- 3c. Write a story problem depicting  $\frac{3}{4} \div 5$  **5marks**
- 4a. With an example each, explain the following properties on the set of integers: **15marks**  
i. Closure property of addition of integers  
ii. Commutative property of multiplication  
iii. Distributive property of multiplication over subtraction

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- 4b. Describe how you guide a Basic school learner to identify the following in the set of numbers: 7, 9, 13, 15, 17, 21: **10marks**
- (i) Odd numbers
  - (ii) Prime numbers
5. You have been assigned the topic 'Addition of whole numbers' from the Basic school curriculum to present on during the micro-teaching period of TEUP 206. Write a detailed lesson notes on what you will be teaching. **25marks**