

AKENTEN APPIAH-MENKA

UNIVERSITY OF SKILLS TRAINING AND ENTREPRENEURIAL DEVELOPMENT

DEPARTMENT OF MATHEMATICS EDUCATION

RE-SIT/SUPPLEMENTARY EXAMINATION –JUNE 2021

INDEX NUMBER :.....

COURSE CODE	PMT <del>21</del> 121
COURSE TITLE	MATHEMATICS CURRICULUM
DURATION	2 HOURS
LECTURERS	DR. EBENEZER BONYAH
INSTRUCTION(S)	ANSWER ALL QUESTIONS IN BOTH SECTIONS ON BY WRITING IN THE SPACES PROVIDED.

SECTION A

*Write or type your answer(s) in the spaces provided*

1. All issues and situations related to teacher behavior and teaching and learning resources available in the classroom is related to which level of curriculum?  
.....
2. The term 'New math' came as a result of many changes made in the mathematics curriculum. This term was first named in .....
3. According to history, many observations support the fact that the school mathematics curriculum has inadvertently acquired a universal status and this has led many countries across the world to view the mathematics curriculum as .....
4. The simple arithmetic that we do in recent centuries did not emerge early because generating a symbol for some numbers was difficult. What integer had a similar challenge in its development?  
.....

5. What was the major aim of new math in the development of the mathematics curriculum?  
.....
6. Form a series of triangular numbers between 30 and 80.  
.....
7. Which concept of mathematics developed in Egypt by the river Nile?  
.....
8. The first curriculum projects involved in carrying out the new math innovation in Ghana was.....
9. The keywords- knowing, analyzing and evaluating are associated with which domain in the new mathematics curriculum for upper primary?  
.....
10. Helping learners understand and be able to use the language, symbols and notation of Mathematics is ..... of the new curriculum.
11. The Entebbe Math Series was developed through the.....
12. All processes involving 'information handling' is referred to as.....
13. One is said to be..... when one identifies concepts and groups them based on their characteristics.
14. The design of new schemes for secondary schools which was reviewed to abridge the 5-year series to a 3-year series for the senior secondary system was an initiative through which project?  
.....
15. Which skill enables learners to draw on their own experiences to analyze situations and choose the most appropriate solution out of a number of possible solutions?

## SECTION B

### QUESTION 1

- a. As a prospective mathematics teacher, explain any **three (3)** main reasons for the study of mathematics.

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*[9 marks]*

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16. When a learner combines and devises new or related concepts to form a single idea, he or she is said to be going through the process of.....

17. Laboratory method is an approach that is comparably more of .....  
than being teacher-centred.

18. As a result of the reforms in education which began in 1987, the age at which the majority of students write their matriculation (i.e. university qualifying) examination reduced from.....

19. Which skills promote entrepreneurial skills in learners through their ability to think of new ways of solving problems and developing technologies for solving a situation?  
.....

20. Before the development of mathematics, counting in the olden days started in base ten due to what main reason?  
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- b. Explain the concept “assessment of learning”.

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**[6 marks]**

## **QUESTION 2**

- a. A student in SHS 2 still finds it difficult to understand the concept of Geometric Progression, describe any scaffolding strategy you can use to curb this challenge?

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**[8 marks]**

- b. Explain the difference between the separate subject core and the fused core with at least three (3) examples each.

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***[7 marks]***