



THE OPEN UNIVERSITY OF SRI LANKA

FACULTY OF EDUCATION

DIPLOMA IN EARLY CHILDHOOD AND PRIMARY

EDUCATION – LEVEL 3 – 2020/2021

FINAL EXAMINATION

EPD3532/ESD1232 – CURRICULUM STUDIES AND PRACTICUM – MATHEMATICS

DURATION – THREE (03) HOURS

Date: 09.07.2023

Time: 9.30 a.m. – 12.30 p.m.

Answer All Questions in Part I and any three (03) questions from Part II.

PART - I

01. Tabulate the Jean Piaget's Development stages with age.
02. Describe the function of schema.
03. List out the main themes (concepts) in primary mathematics.
04. State **five (05)** objectives to be achieved by teaching/learning mathematics at primary level.
05.
 - a) What are the tree main elements in present teaching-learning process at primary school system in Sri Lanka.
 - b) Draw a diagram and explain how does the emphasis an each element change key stage to key stage.
06. Provide **four (04)** evidence to show existences of mathematics in pre-history era.
07. List out **five (05)** basic competencies that should be development in primary stages mentioned in the First Report of the National Education Commission (NEC).
08. Describe the characteristics of Dystaxia.

(05 x 08 = 40 marks)

PART - II

09. i. Define the term 'Teaching Aids' in your own words. (05 marks)
- ii. Explain the importance of using teaching aids at teaching mathematics in primary class. (05 marks)
- iii. a. Explain about Dians block with relevant Diagram. (05 marks)
- b. Explain how to use the dians block to,
- Indicate place value 2023
 - Add $-234 + 458$
 - Subtract $(608 - 437)$
- (05 marks)

10. i. Describe the following terms.
- Systematic Error
 - Careless Error
 - Random Error
- (3 x 1 = (03 marks))
- ii. List out any five computational error patterns related addition and give two examples for each. (05 marks)

iii.

23	80	69	37	23
<u>+41</u>	<u>+75</u>	<u>+83</u>	<u>+36</u>	<u>+94</u>
<u><u>10</u></u>	<u><u>20</u></u>	<u><u>26</u></u>	<u><u>19</u></u>	<u><u>18</u></u>

Above addition summery done by a grade 3 student.

Observe above answers. If the same student answer the following sums what will be his answer.

75	37	94	54	12
<u>+23</u>	<u>+81</u>	<u>+63</u>	<u>+47</u>	<u>+92</u>
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Explain the answer.

(08 marks)

- iv. Propose a remedial teaching method to overcome above error. (04 marks)

11. i. What are the three 'R' s in Primary Education used up to 1960's. (03 marks)
- ii. Draw the curriculum framework and explain 1998 primary education curriculum reforms. (17 marks)
12. There are seven steps in a primary mathematics lesson plan. First step in "Clear statement of lesson objective".
- i. List out other six steps. (06 marks)
- ii. "Add two – two digit numbers with carrying forward from the ones place" Is one of the lesson objectives write lesson plan for above objective. (14 marks)
13. i. Define the term "Assessment". (05 arks)
- ii. Explain the following. (05 marks)
- a. Norm referenced and criterion assessment.
- b. Formative and summative assessment.
- iii. "Formative assessment is better than the summative assessment in the primary stage." Do you agree above statement" Justify your answer. (10 marks).

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