



THE OPEN UNIVERSITY OF SRI LANKA

FACULTY OF EDUCATION

BACHELOR OF EDUCATION (HONOURS) IN PRIMARY EDUCATION

LEVEL - 03

FINAL EXAMINATION – 2020/2021

EPU3533 – CURRICULUM STUDIES AND PRACTICUM – MATHEMATICS

DURATION – THREE (03) HOURS

Date: 22.01.2023

Time: 09.30 a.m. – 12.30 p.m.

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

PART - I

01. Describe in brief, the European contribution to origin and evolution of Mathematical concepts.
02. 'All four mathematical operations introduced in primary education level' Explain in brief how the addition concept developed from Grade 1 to Grade 5.
03. Describe in brief the major change introduced in primary mathematics in 1998 curriculum reform.
04. 'Mathematics is a subject in which problem solving is an essential inherent component'. Do you agree with the above statement? Justify your answer.
05. List out **five (05)** points, which should be considered by the teacher when selecting, preparing and using teaching aids in primary level classroom.
06. Explain the effectiveness of peer learning methods when learning mathematics.
07. Explain the following terms.
 - a) Essential learning competencies
 - b) Desirable learning competencies
08. What do you mean by the term Mathematics learning difficulties.

(8 x 5 = 40 marks)

PART - II

09. i) Explain about 'Newman's Error Analysis model'. (05 marks)

ii)

| | | | | |
|------------|------------|------------|------------|------------|
| 24 | 41 | 57 | 31 | 41 |
| <u>+83</u> | <u>+90</u> | <u>+61</u> | <u>+91</u> | <u>+87</u> |
| <u>08</u> | <u>32</u> | <u>19</u> | <u>23</u> | <u>29</u> |

above addition sums done by a student in Grade 4. Carefully observe above answer. If the same student answers the following sums what will his answer.

| | | | | |
|------------|------------|------------|------------|------------|
| 72 | 92 | 52 | 82 | 40 |
| <u>+81</u> | <u>+16</u> | <u>+63</u> | <u>+43</u> | <u>+91</u> |
| — | — | — | — | — |

Explain the error made by the student.

(07 marks)

- iii) Propose a relevant remedial activity to overcome this error. (08 marks)

10. i) "Many children with mathematics difficulties is compounded by oral language and reading difficiencies. These children may occassionaly show few behaviour in courses of normal development". List out ten behaviours which discussed above and explain those in brief. (10 marks)

- ii) "Many of the elements of Information processing are linked with mathematics difficulties. List out **five (05)** information processing factors and explain how problem in information processing affect mathematics performance. (10 marks)

11. i) What do you meant by the term "Assessment"? (05 marks)

- ii) List out **five (05)** assessment methods which can be used in primary mathematics and explain those with relevant examples. (15 marks)

12. "As a facilitator teacher plays four roles in teaching mathematics of primary level"
- i) List out those four roles. (04 marks)
 - ii) Explain those with relevant examples. (06 marks)
13. i. Define the term 'Teaching Aids' and explain. (03 marks)
- ii. Discuss the importance of using teaching aids when teaching mathematics. (05 marks)
 - iii. List out and describe **four (04)** teaching aids which can be used to teaching mathematics at primary classes. (04 marks)
 - iv. Explain how can you do these mathematical operations using Dienes blocks.
 - a) $35 + 48$
 - b) $73 - 29$(08 marks)

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