THE OPEN UNIVERSITY OF SRI LANKA DIPLOMA IN EARLY CHILDHOOD AND PRIMARY EDUCATION FINAL EXAMINATIONS – 2007



ESD 1232 -CURRICULUM STUDIES AND PRACTICUM -MATHEMATICS

DURATION: THREE (03) HOURS

Date: 09.12.2007 Time: 10.00 a.m. – 1.00 p.m.

Answer all the question in Part I and only three (03) questions from Part II.

PART 1

- 01. Write <u>five</u> (05 basic mathematical concept that developing in a child during his/her early years.
- 02. List the necessary three (03) steps that should be followed when providing experiences of numbers concept at pre school level.
- 03. Explain in brief why teaching mathematics at primary stage is important.
- 04. Write three (03) objectives of teaching mathematics at primary stage.
- 05. List <u>five</u> (05) basic competencies that should be developed in the primary stage stated in the 'first report' of the national education Commission. (NEC).
- 06. What are the topics included under the theme "measurement" in Primary Mathematics Curriculum.
- 07. List the pre-mathematical concepts included in the subject 'mathematics' in key stage I.
- 08. Match the following mathematical themes and topics.

| Themes | Topics |
|---|---|
| Pre number concept Number Mathematics Operation Measurement Shape & Space | Length One to one correspondence Right angle Addition |
| | Decimal Division |
| | Solid and plane Weight Fraction |
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(5x8 = 40 marks)

PART II

- 09. i. Write <u>four</u> (04) Models used in assessing children in the primary classroom. (04 marks)
 - ii. Describe briefly the main characteristics of each of these models. (16 marks)
- 10. i. Write <u>five(05)</u> challenges that a teacher would face when teaching mathematics at pre school level. (05 marks)
 - ii. Explain why concept formation is very important in relation to mathematics at pre school level. (15 marks)
- 11. i. Explain with examples how the experiences in mathematics would help student in understanding the content in other subject areas in the primary grades. (20 marks)
- 12. Write short notes on any <u>two</u> (02) of the topics given below.
 - i. Integrated curriculum
 - ii. Primary mathematics syllabus
 - iii. Competency based curriculum.

(20 marks)

- 13. Describe the relationship between primary mathematics and secondary mathematics under the following headings.
 - i. Objectives
 - ii. Content areas
 - iii. Teaching methods
 - iv. Assessment procedures.

(20 marks)

$$\frac{3}{+0}$$

$$70 + 22$$
 90

Observe these carefully and answer the following questions.

i. Explain the error pattern of the student.

(04 marks)

ii. If the same student is given the following sums how would he/she respond?

(04 marks)

iii. Explain the procedures you would follow as the teacher of that student to correct the errors made by the student. (12 marks)

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