

THE OPEN UNIVERSITY OF SRI LANKA
CERTIFICATE IN PRE-SCHOOL EDUCATION
FINAL EXAMINATION – 2004/2005



ESC 1136/ ESC 1125 – DEVELOPMENT OF MATHEMATICAL SKILLS

DURATION : TWO (02) HOURS

DATE : 22nd March 2008

TIME : 10.00 a.m. – 12.00 noon

ANSWER ANY FOUR OF THE QUESTIONS.

01. Prepare a descriptive work plan (a lesson plan) for 45 minutes, to develop the concept of 'Sorting according to size' in pre school children under the following:
- a) The objectives of the lesson. (2 marks)
 - b) Teaching aids (Illustrate) (5 marks)
 - c) One activity to introduce the concept (6 marks)
 - d) Two activities to reinforce the concept. (12 marks)
- (25 marks)
02. a) Explain 'the concept of conservation' under the following:
- i. Conservation of quantity of liquid.
 - ii. Conservation of mass of matter and
 - iii. Conservation of number. (09 marks)
- b) Describe two activities with teaching aids to develop the concepts.
- i. Conservation of quantity of liquid and
 - ii. Conservation of mass of matter. (16 marks)
- (25 marks)
03. a) Describe three activities (with teaching aids) which help to develop the concept of 'Geometrical Shapes' in pre-school children. (15 marks)
- b) Explain with illustrations suitable sets of teaching aids (a set per concept) to develop the following concepts in pre-school children.
- i. One to one correspondence and
 - ii. Ordering (10 marks)
- (25 marks)

04. a) Describe three personal qualities and three professional qualities that you should develop as a pre-school teacher. (10 marks)
- b) Explain five important facts which you should consider when preparing teaching-learning materials for pre-school children. (15 marks)
(25 marks)
05. a) Explain the following measurements with illustrations.
i. Capacity (volume)
ii. Weight
iii. Length
iv. Time. (12 marks)
- b) Describe how you would organize activities (One activity per each)
i. To measure the length and the breadth of the pre school child's table and
ii. To compare capacity of two bottles. (13 marks)
(25 marks)
06. a) Write sequential steps which you should follow in presenting numerals to the pre-school child. (08 marks)
- b) Describe four activities (with illustrations) which help to develop the 'concept of numbers'. (17 marks)
(25 marks)

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