Eastern University, Sri Lanka

Faculty of Science

First Semester Examination in M.Sc. in Science Education

2013/2014 (March 2016)

MSED 2506: Measurement of Learning Outcomes

Answer all questions

Time: 02 hours

1.
a) Giving examples from your teaching of science in grades 6 - 11, mention the benefits of stating the contents of learning as specific objectives. (06 marks)

b) State the main categories of Bloom's taxonomy of educational objectives. (06 marks)

c) State the main categories of the revised Bloom's taxonomy (06 marks)

d) Give an example of an MCQ type question to test attainment at the "Remembering" level in a specific topic in science. (07marks)

2.
a) Describe in detail the main demerits of the Essay type achievement tests. (07 marks)

b) How does the Objective type tests overcome the shortcomings of the essay type tests? (07 marks)

c) Comment on the use of Structured Essay type tests for evaluation of learning in science (06 marks)

d) Giving an example, illustrate the use of Rating scales in assessment of practical work in Science (05 marks)

3.
a) State the main characteristics of achievement tests (07 marks)

b) Explain **one** method for determining any one of these characteristics. (06 marks)

c) Select one of the characteristics and list the factors that influence its value. (06 marks)

d) Explain how you would determine the content validity of an achievement test. (06 marks)

Write notes on the following with respect to teaching of science in the secondary classes. Give classroom examples to each: Formal Assessment

a) Summative Assessment
b) Continuous assessment
c) School Based Assessment
d) Diagnostic test to assist remedial teaching