THE OPEN UNIVERSITY OF SRI LANKA

FACULTY OF EDUCATION

BACHELOR OF EDUCATION HONOURS IN SPECIAL NEEDS EDUCATION DEGREE PROGRAMME - 2020/2021

LEVEL - 05

FINAL EXAMINATION – 2021

SNU5343/ESU3143 – MEASUREMENT & EVALUATION IN SPECIAL NEEDS EDUCATION

DURATION – THREE (03) HOURS

Date: 14.08.2021 Time: 09.30 a.m. – 12.30 p.m.

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

ii. **Normal calculators (Not Scientific) could be used for basic mathematical calculations.**

PART - I

01. Differentiate the concepts 'Assessment' and 'Evaluation'.

02. State **five (05)** aspects that should be considered in preparing a specification table.

03. Briefly explain the role of assessment in achieving the competency 'Learning to learn".

04. Briefly explain **four (04)** uses of information collected through assessment for a teacher.

05. i. What is an objective type test?

    ii. Explain in brief **four (04)** advantages of using those test in assessing student performance.

06. i. What is meant by norm tables?

    ii. Explain in brief **two (02)** types of norm tables used in educational evaluation.

07. Explain in brief why it is difficult to measure affective development?

08. i. What is a standard score (Z-score)?

    ii. Calculate the standard score corresponding to a raw mark 78 of a distribution in which arithmetic mean and standard deviation are 48 and 12 respectively.

(5 x 8 = 40 marks)

PART - II

09. Marks obtained by 40 students in a final examination are given in the following table.

42	67	93	07	33	55	39	40
57	30	44	40	50	20	80	12
43	40	47	30	37	61	29	40
45	19	70	65	83	87	43	34
19	10	47	35	32	24	70	34

i. Prepare a frequency distribution for the above set of marks taking (38-49) as one of the class intervals.

(03 marks)

ii. Calculate the mode and median of this distribution.

(05 marks)

iii. Considering the assumed mean of the above set of marks to be in the class interval (38-49), calculate the arithmetic mean.

(06 marks)

iv. Calculate the standard deviation of the distribution of marks.

(06 marks)

10. i. Explain the terms 'correlation' and 'correlation coefficient'.

(04 marks)

ii. What is meant by 'perfect positive correlation'?

(02 marks)

iii. Marks obtained by 10 students for Maths and Arts at an year end examination are given below.

Student / Subject	A	B	C	D	E	F	G	H	I	J
Maths	46	55	50	58	60	50	62	47	60	50
Arts	85	57	70	60	55	63	53	70	57	50

a. Calculate the rank difference correlation coefficient between Maths and Arts marks.

(11 marks)

b. Comment on the value you obtained for the correlation coefficient.

(03 marks)

11. i. Briefly explain **five (05)** characteristics of Normal Probability curve.

(05 marks)

ii. Marks obtained by 2500 students in an examination are distributed according to normal probability curve. The arithmetic mean and standard deviation of this distribution are 50 and 15 respectively.

a. Find the number of students who scored between 35 and 60 marks.

(05 marks)

b. If the best 10% of the students are expected to be given scholarships, what is the minimum mark required to receive a scholarship.

(05 marks)

c. If those who obtained less than 40 marks are failed the examination, find the number of students failing this examination.

(05 marks)

12. i. What is meant by an essay type test?

(02 marks)

ii. Writ **three (03)** advantages and **three (03)** disadvantages of an essay type test.

(06 marks)

iii. suggest ways and means to minimize disadvantages of an essay type tests.

(06 marks)

iv. Write an essay type test and convert it into a structured essay test item.

(04 marks)

v. Write **two (02)** advantages of that conversion.

(02 marks)

13. i. What is meant by 'Psychomotor development' of a child?

(05 marks)

ii. Explain **three (03)** factors affecting psychomotor development.

(05 marks)

iii. a. What are the major aspects that can be measured in psychomotor activities?

(02 marks)

b. Explain how those can be measured using examples.

(08 marks)

14. A. i. What is meant by the term 'Attitude'?

(02 marks)

ii. Mention **four (04)** characteristics of attitudes and explain those briefly.

(08 marks)

B. i. Explain what is meant by a socio-metric test, citing an examples.

(06 marks)

ii. Write **two (02)** uses of a socio metric test.

(04 marks)