



# MACHAKOS UNIVERSITY

University Examinations for 2020/2021 Academic Year

SCHOOL OF EDUCATION

DEPARTMENT OF EDUCATIONAL PSYCHOLOGY & SPECIAL NEEDS EDUCATION

FOURTH YEAR FIRST SEMESTER EXAMINATION FOR

BACHELOR OF EDUCATION (SPECIAL NEEDS EDUCATION)

ESN 420: RESEARCH PROJECT IN SPECIAL NEEDS EDUCATION

DATE: 12/8/2021

TIME: 11.00-1.00 PM

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## INSTRUCTIONS

ANSWER QUESTION ONE AND ANY OTHER TWO QUESTIONS

### QUESTION ONE (30 MARKS)

- a) Describe what is a statement of the problem in research (4 marks)
- b) Differentiate between a research objective and a research question (4 marks)
- c) Discuss the difference between quantitative approach and qualitative approach in research. (5 marks)
- d) State four sources of research problem (4 marks)
- e) Explain what is a bar graph (5 marks)
- f) Explain what plagiarism in academic writing is (4 marks)
- g) Describe the meaning of a sample size in research (4 marks)

### QUESTION TWO (20 MARKS)

- a) State four characteristics of a good research problem (4 marks)
- b) Discuss challenges one is likely to face in identifying a research problem (16 marks)

### QUESTION THREE (20 MARKS)

Discuss four probability sampling techniques

#### QUESTION FOUR (20 MARKS)

Ouma gave a test to 30 learners in class in numberwork and the scores were as follows

9	18	15	13	14	15	17	16	1	15
14	11	13	10	13	12	12	15	14	14
16	10	14	15	16	12	10	17	14	10

- Prepare the above data in tallies and frequency distribution (3 marks)
- Prepare the scores in grouped frequency with the interval range of 5 (7 marks)
- Draw a histogram to represent the performance in the number work. (10 marks)

#### QUESTION FIVE (20 MARKS)

A class of sign language did an examination and got the following scores

34	6	32	40	12	6	10	16	30	20
10	32	36	16	20	40	12	28	20	30
36	16	20	12	28	24	10	24	30	20

- Calculate the mean of the scores (5 marks)
- Identify the median of the scores (5 marks)
- State the mode in the scores (5 marks)
- Construct a pie chart to present the scores (5 marks)