



M.Ed. Two year Programme

I SEMESTER - TEST PAPERS

NOVEMBER 2015

Name : M.Ed.:04 : METHODOLOGY OF RESEARCH IN
EDUCATION - I

Address : _____
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Department : _____

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File No. : _____



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ST. ANN'S COLLEGE OF EDUCATION, MANGALORE.
(AUTONOMOUS)
M.Ed. Two Year Programme

First Semester Test - November 2015

M.Ed. 04 : Methodology of Research in Education - I

Time : 3 Hours

Date : 25-11-2015

Max. Marks : 70

Note : There are two sections in the question paper. Both are compulsory.

Section A

Note : Answer the following questions in about **three** papers each.

1. a. i) Explain the meaning, characteristics and functions of Educational Research.
ii) Explain the steps of Scientific Method and list its limitations. (5+5)
[or]
- b. i) Discuss the sources for selection and criteria for evaluation of a research problem.
ii) Explain the steps of conducting a literature review. (5+5)
- 2 a. i) Enumerate the characteristics of a good sample and analyse the steps involved in the sampling process.
ii) Explain the sampling and non-sampling errors with illustrations. (6+4)
[or]
- b. i) Explain different types of variables with examples.
ii) Explain the procedure of stratified random sampling method and list its merits and limitations. (6+4)
- 3 a. i) Explain the meaning and characteristics of four scales of measurement.
ii) List the factors affecting reliability of a research tool and explain any two methods of establishing reliability of test. (4+6)
[or]
- b. i) Explain the types and steps involved in the process of observation in Research.
ii) Explain the procedure of construction of a questionnaire. (6+4)
- 4 a. i) Explain the advantages of graphical representation of data and explain the features and applications of ogive curve.
ii) Calculate the arithmetic mean for the following grouped data. (4+6)

Class Interval	Frequency
55 - 59	2
50 - 54	6
45 - 49	5
40 - 44	11
35 - 39	9
30 - 34	18
25 - 29	5
20 - 24	3
15 - 19	1

N = 60

-: 2 :-

[or]

- b. i) Explain the concept and characteristics of measures of Central Tendency.
ii) Calculate the median for the following grouped data. (4+6)

Class Interval	Frequency
95 – 99	1
90 – 94	2
85 – 89	3
80 – 84	4
75 – 69	7
70 – 74	11
65 – 69	6
60 – 64	3
55 – 59	2
50 – 54	1

N = 40

Section B

Note : Answer the Six of the following questions in about a page each. (6x5=30)

5. a) Explain the characteristics and structure of Mixed Method Research.
b) Discuss any two area of Educational Research.
c) Explain the different types and forms of stating hypothesis with illustrations.
d) Explain the format of a research proposal.
e) Describe the procedure of multi stage sampling with an illustration and list its merits and limitations.
f) Explain the methods of estimating validity and suggest measures to increase the validity of a research.
g) Explain the different forms of Rating scales and list its merits.
h) Explain the salient features of frequency Polygon and Histogram and list its merits with respect to analysis of data.

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ST. ANN'S COLLEGE OF EDUCATION, MANGALORE.
(AUTONOMOUS)
M.Ed. Two Year Programme

First Semester Test - November 2016

MEH404 : Methodology of Research in Education - I

Time : 3 Hours

Date : 02-12-2016

Max. Marks : 70

Note : There are Two sections in the question paper. Both the sections are compulsory.

ಸೂಚನೆ : ಪ್ರಶ್ನೆ ಪತ್ರಿಕೆಯಲ್ಲಿ ಎರಡು ವಿಭಾಗಗಳಿವೆ. ಎರಡೂ ವಿಭಾಗಗಳೂ ಕಡ್ಡಾಯ.

Section A/ವಿಭಾಗ ಎ

Note : Answer the following questions in about three papers each.

ಸೂಚನೆ : ಈ ಕೆಳಗಿನ ಪ್ರಶ್ನೆಗಳಿಗೆ ತಲಾ ಮೂರು ಪುಟಗಳಷ್ಟು ಉತ್ತರ ಬರೆಯಿರಿ.

1a) i) List the assumptions and explain the steps of Scientific Method.

ii) Discuss the scope and functions of Educational Research.

i) ವೈಜ್ಞಾನಿಕ ವಿಧಾನದ ಊಹೆಗಳನ್ನು ಪಟ್ಟಿಮಾಡಿ ಹಾಗೂ ವೈಜ್ಞಾನಿಕ ವಿಧಾನದ ಹಂತಗಳನ್ನು ವಿವರಿಸಿ.

ii) ಶೈಕ್ಷಣಿಕ ಸಂಶೋಧನೆಯ ವ್ಯಾಪ್ತಿ ಹಾಗೂ ಕಾರ್ಯಗಳನ್ನು ಚರ್ಚಿಸಿ. (5+5)

[or/ಅಥವಾ]

b. i) Explain the factors involved in the selection of a research problem and steps in the formulation of a research problem.

ii) Discuss the purpose and need for the review of literature at different stages of educational research.

i) ಸಂಶೋಧನಾ ಸಮಸ್ಯೆಯ ಆಯ್ಕೆಯು ಒಳಗೊಂಡಿರುವ ಹಾಗೂ ಸಂಶೋಧನಾ ಸಮಸ್ಯೆಯನ್ನು ಸೂತ್ರಾಚಾರಣೆ ಮಾಡುವ ಹಂತಗಳನ್ನು ವಿವರಿಸಿ.

ii) ಸಾಹಿತ್ಯಾವಲೋಕನದ ಉದ್ದೇಶಗಳು ಹಾಗೂ ಶೈಕ್ಷಣಿಕ ಸಂಶೋಧನೆಯ ವಿವಿಧ ಹಂತಗಳಲ್ಲಿ ಸಾಹಿತ್ಯಾವಲೋಕನದ ಅಗತ್ಯತೆಯನ್ನು ಚರ್ಚಿಸಿ. (5+5)

2 a. i) Give the meaning of hypothesis and explain the different forms of stating hypothesis with examples.

ii) Explain the format of a research proposal.

i) ಪ್ರಾಕಲ್ಪನೆಯ ಅರ್ಥವನ್ನು ನೀಡಿ ಹಾಗೂ ಪ್ರಾಕಲ್ಪನೆಯನ್ನು ವ್ಯಕ್ತಪಡಿಸುವ (ತಿಳಿಸುವ) ವಿವಿಧ ವಿಧಗಳನ್ನು ಉದಾಹರಣೆಗಳೊಂದಿಗೆ ವಿವರಿಸಿ.

ii) ಸಂಶೋಧನೆಯ ರೂಪುರೇಷೆಗಳನ್ನು ವಿವರಿಸಿ. (5+5)

[or/ಅಥವಾ]

b. i) Explain the terms 'Population and Sample' with appropriate examples and analyse the steps involved in the sampling process.

ii) Explain the procedure of stratified random sampling with an example.

i) ಸಮಷ್ಟಿ ಮತ್ತು ಪ್ರತಿದರ್ಶಕ ಈ ಪದಗಳನ್ನು ಸೂಕ್ತ ಉದಾಹರಣೆಗಳೊಂದಿಗೆ ವಿವರಿಸಿ ಹಾಗೂ ಪ್ರತಿಚಯನ ಪ್ರಕ್ರಿಯೆಯು ಒಳಗೊಂಡಿರುವ ಹಂತಗಳನ್ನು ವಿಶ್ಲೇಷಿಸಿ.

ii) ಸ್ತರೀಕೃತ ಪ್ರತಿದರ್ಶಕಚಯನ ವಿಧಾನವನ್ನು ಒಂದು ಉದಾಹರಣೆಯೊಂದಿಗೆ ವಿವರಿಸಿ. (5+5)

- 3 a. i) Explain the characteristics of four scales of measurement.
ii) Explain the types and steps involved in the process of observation in research.
i) ಅಳತೆಯ ನಾಲ್ಕು ಮಾಪನಗಳ ಗುಣಲಕ್ಷಣಗಳನ್ನು ಸೂಕ್ತ ಉದಾಹರಣೆಗಳೊಂದಿಗೆ ವಿವರಿಸಿ.
ii) ವೀಕ್ಷಣೆಯ ವಿಧಗಳು ಹಾಗೂ ಸಂಶೋಧನೆಯಲ್ಲಿ ವೀಕ್ಷಣಾ ಪ್ರಕ್ರಿಯೆಯು ಒಳಗೊಂಡಿರುವ ಹಂತಗಳನ್ನು ವಿವರಿಸಿ. (4)

[or/ಅಥವಾ]

- b. i) Explain the methods of establishing validity and suggest measures to increase the validity of a research tool.
ii) Describe the types and procedure of construction of a questionnaire.
i) ಪರಿಕ್ಷಣದ ಸಮಂಜಸತೆಯನ್ನು ನಿರ್ಧರಿಸುವ ವಿಧಾನಗಳನ್ನು ಹಾಗೂ ಸಂಶೋಧನಾ ಪರಿಕ್ಷಣದ ಸಮಂಜಸತೆಯನ್ನು ಹೆಚ್ಚಿಸಲು ಕ್ರಮಗಳನ್ನು ಸೂಚಿಸಿ. (4)
ii) ಪ್ರಶ್ನಾವಳಿಯ ವಿಧಗಳು ಹಾಗೂ ತಯಾರಿಸುವ ವಿಧಾನವನ್ನು ವರ್ಣಿಸಿ. (5)

- 4 a. i) Explain the characteristics and ^{ಒಳ}uses of measures of central tendency.
ii) Calculate the standard deviation for the following grouped data.

Class Interval	Frequency
80 - 84	2
75 - 79	6
70 - 74	5
65 - 69	11
60 - 64	10
55 - 59	15
50 - 54	1

N = 50

- i) ಕೇಂದ್ರೀಯ ಪ್ರವೃತ್ತಿಮಾನಗಳ ಗುಣಲಕ್ಷಣಗಳು ಹಾಗೂ ಉಪಯೋಗಗಳನ್ನು ವಿವರಿಸಿ.
ii) ಈ ಕೆಳಗಿನ ದತ್ತಾಂಶಗಳಿಗೆ ಮಾನಕ ವಿಚಲನೆಯನ್ನು ಲೆಕ್ಕಾಚಾರ ಮಾಡಿ. (4+6)

ವರ್ಗಾಂತರ	ಆವೃತ್ತಿ
80 - 84	2
75 - 79	6
70 - 74	5
65 - 69	11
60 - 64	10
55 - 59	15
50 - 54	1

N = 50

[or/ಅಥವಾ]

- b. i) Explain the advantages of graphical representation of data and compare frequency polygon and histogram.
ii) Calculate Percentile P_{30} and Percentile Rank PR_{65} for the following grouped data.

Class Interval	Frequency
90 - 94	4
85 - 89	10
80 - 84	16
75 - 79	20
70 - 74	14
65 - 69	8
60 - 64	8

N = 80

- i) ದತ್ತಾಂಶಗಳನ್ನು ನಕಾಶೆಗಳ ಮೂಲಕ ಪ್ರತಿನಿಧಿಸುವುದರ ಪ್ರಯೋಜನಗಳನ್ನು ವಿವರಿಸಿ ಹಾಗೂ ಹಿಸ್ಟೋಗ್ರಾಮ್ ಹಾಗೂ ಆವೃತ್ತಿ ಬಹುಭುಜಾಕೃತಿಗಳನ್ನು ಹೋಲಿಸಿ.
- ii) ಈ ಕೆಳಗಿನ ವರ್ಗೀಕೃತ ದತ್ತಾಂಶದ 50ನೇ ಶತಾಂಕ (P_{50}) ಹಾಗೂ ಶತಾಂಶ ಶ್ರೇಣಿ 65 (PR_{65}) ಗಳನ್ನು ಲೆಕ್ಕಾಚಾರ ಮಾಡಿ. (4+6)

ವರ್ಗಾಂತರ	ಆವೃತ್ತಿ
90 - 94	4
85 - 89	10
80 - 84	16
75 - 79	20
70 - 74	14
65 - 69	8
60 - 64	8

$N = 80$

Section B/ವಿಭಾಗ ಬಿ

Note : Answer any Six of the following questions in about a page each.

ಸೂಚನೆ : ಈ ಕೆಳಗಿನ ಯಾವುದಾದರೂ ಆರು ಪ್ರಶ್ನೆಗಳಿಗೆ ಒಂದು ಪುಟದಷ್ಟು ಉತ್ತರಿಸಿ. (6x5=30)

5. a) Compare qualitative and quantitative research paradigm.
ಗುಣಾತ್ಮಕ ಹಾಗೂ ಪರಿಮಾಣಾತ್ಮಕ ಸಂಶೋಧನ ರೂಪಾವಳಿ (ಮಾದರಿ) ಗಳನ್ನು ಹೋಲಿಸಿ.
- b) Discuss the steps of conducting review of related literature.
ಸಂಬಂಧಿತ ಸಾಹಿತ್ಯವಲೋಕನವನ್ನು ಮಾಡುವ ಹಂತಗಳನ್ನು ಚರ್ಚಿಸಿ.
- c) Explain the different types of research variables with examples.
ಸಂಶೋಧನಾ ಚಲಕಗಳ ವಿಧಗಳನ್ನು ಉದಾಹರಣೆಯೊಂದಿಗೆ ವಿವರಿಸಿ.
- d) Explain the characteristics and steps of a good research design.
ಸಂಶೋಧನಾ ವಿನ್ಯಾಸದ ಗುಣಲಕ್ಷಣಗಳನ್ನು ಹಾಗೂ ಹಂತಗಳನ್ನು ವಿವರಿಸಿ.
- e) Explain quota and purposive sampling methods with an example.
ಪಾಲು ಮತ್ತು ಉದ್ದೇಶಿತ ಪ್ರತಿಚಯನ ವಿಧಾನವನ್ನು ಸೂಕ್ತ ಉದಾಹರಣೆಗಳೊಂದಿಗೆ ವಿವರಿಸಿ.
- f) Explain the different forms of rating scales and list its merits.
ವಿವಿಧ ರೀತಿಯ ದರ್ಜಾಮಾಪನಿಗಳನ್ನು ವಿವರಿಸಿ ಹಾಗೂ ಅವುಗಳ ಪ್ರಯೋಜನಗಳನ್ನು ಪಟ್ಟಿಮಾಡಿ.
- g) List the factors affecting reliability and explain any two methods of establishing reliability.
ಪರಿಶೋಧನಾ ಸಾಧನದ ವಿಶ್ವಾಸನೀಯತೆಯ ಮೇಲೆ ಪರಿಣಾಮ ಬೀರುವ ಅಂಶಗಳನ್ನು ಪಟ್ಟಿಮಾಡಿ ಹಾಗೂ ಅದರ ವಿಶ್ವಾಸನೀಯತೆಯನ್ನು ದೃಢಪಡಿಸುವ ಯಾವುದಾದರೂ ಎರಡು ವಿಧಾನಗಳನ್ನು ವಿವರಿಸಿ.
- h) Explain the concept and method of computing 'Z' and 'T' score with an example.
'Z' ಅಂಕ ಹಾಗೂ 'T' ಅಂಕಗಳ ಪರಿಕಲ್ಪನೆ ಹಾಗೂ ಲೆಕ್ಕಾಚಾರ ಮಾಡುವ ವಿಧಾನವನ್ನು ಒಂದು ಉದಾಹರಣೆಯೊಂದಿಗೆ ವಿವರಿಸಿ.

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ST. ANN'S COLLEGE OF EDUCATION, MANGALURU.

(AUTONOMOUS)

M.Ed. Two Year Programme

First Semester Test - December 2017

MEH404 : Methodology of Research in Education - I

Time : 3 Hours

Date : 14-12-2017

Max. Marks : 70

Note : There are Two sections in the question paper. Both the sections are compulsory.

Section A

Note : Answer the following questions in about three papers each.

- 1a) i) Discuss the characteristics and functions of educational research.
ii) Explain the characteristics of qualitative and quantitative research. (5+5)
[or]
- b. i) Discuss the factors involved in the selection of a research problem and steps in the formulation of a research problem.
ii) Explain the steps of conducting a literature review. (5+5)
- 2 a. i) Explain the different types of variables with examples.
ii) Explain the steps of a good research design. (5+5)
[or]
- b. i) Explain the terms 'Population' and 'Sample' and steps involved in the sampling process.
ii) Explain the multi stage sampling method with an example. (5+5)
- 3 a. i) Explain the characteristics of four scales of measurement.
ii) Explain the types and steps in conducting an interview and list its limitations as a method of data collection. (4+6)
[or]
- b. i) List the factors affecting reliability and explain any one method of establishing reliability of a test.
ii) Explain the steps involved in the construction of a questionnaire. (6+4)
- 4 a. i) Explain the concept and reasons for skewness and turtosis in a distribution.
ii) Given a distribution of scores of 600 students with a mean of 65 and standard deviation 6 assuming normality find out :
(a) The limits which include the middle 25% of the distribution.
(b) Percentage of scores fall between 75 and 47. (4+6)
[or]
- b. i) Explain the uses of ogive curve as a graphical representation of data.
ii) Compute Mean and standard deviation for the following grouped data.

Class Interval	Frequency
60 - 64	3
55 - 59	2
50 - 54	6
45 - 49	12
40 - 44	21
35 - 39	10
30 - 34	5
25 - 29	1

N = 60

(6+4)

Section B

Note : Answer any **Six** of the following questions in about a page each. (6x5=30)

- 5. a) Explain the steps of scientific method with an example.
- b) Discuss the scope of educational research.
- c) Explain the different types and forms of stating hypothesis with an example each.
- d) Explain the procedure of stratified random sampling technique with an example
- e) Explain the format of a research proposal.
- f) Explain the concept and method of computing 'Z' and 'T' scores with an example.
- g) Describe the types and steps in the process of observation.
- h) Calculate P_{50} and PR_{65} for the following data.

Class Interval	Frequency
90 - 94	2
85 - 89	10
80 - 84	10
75 - 79	15
70 - 74	14
65 - 69	5
60 - 64	4

N = 60

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**ST. ANN'S COLLEGE OF EDUCATION, MANGALURU.
(AUTONOMOUS)**

M.Ed. Two Year Programme

First Semester Test - December 2018

MEH404 : Methodology of Research in Education - I

Time : 3 Hours

Date : 12-12-2018

Max. Marks : 70

Note : There are Two sections in the question paper. Both the sections are compulsory.

Section A

Note : Answer the following questions in about three pages each.

1. a. i) Discuss the scope of educational research.
ii) Explain the steps of scientific method and list its limitations. (5+5)
[or]
- b. i) Discuss the sources for the selection of a research problem and steps in the formulation of a research problem.
ii) Explain the steps of conducting a literature review. (5+5)
2. a. i) Explain the different types and forms of stating Hypothesis.
ii) Explain the steps of a good research design. (5+5)
[or]
- b. i) Explain the characteristics of a good sample and steps involved in the sampling process.
ii) Explain the stratified random sampling method with an example. (5+5)
- 3 a. i) Explain the characteristics of four scales of measurement.
ii) Explain the types and steps involved in the process of observation in research and list its limitations as a method of data collection. (5+5)
[or]
- b. i) Explain the methods of establishing validity and suggest measures to increase the validity of a research tool.
ii) Explain the different forms of rating scale and their significance as a research tool. (5+5)
- 4 a. i) State the characteristics of Normal Probability Curve (NPC).
ii) Given a distribution of scores of 400 students with a mean of 60 and standard deviation 6 assuming normality find out :
(a) The limits which include the middle 30% of the distribution.
(b) Percentage of scores fall between 70 and 45. (4+6)
[or]
- b. i) Explain the features and applications of Ogive curve.
ii) Compute Mean and standard deviation for the following data.

Class Interval	Frequency
90 - 94	4
85 - 89	10
80 - 84	16
75 - 79	20
70 - 74	14
65 - 69	8
60 - 64	8

N = 80

(4+6)

Section B

Note : Answer any Six of the following questions in about a page each. (6x5=30)

- 5. a) Explain any two areas of educational research.
- b) Compare qualitative and quantitative research.
- c) Explain the different types variables with an example each.
- d) Explain quota sampling and convenience sampling methods with an example
- e) Explain the format of a research proposal.
- f) Explain the concept and method of computing 'Z' and 'T' scores with an example.
- g) Explain any two methods of establishing reliability.
- h) Calculate P_{40} and PR_{70} for the following data.

Class Interval	Frequency
75 - 79	5
70 - 74	6
65 - 69	12
60 - 64	10
55 - 59	9
50 - 54	8

N = 50

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**ST. ANN'S COLLEGE OF EDUCATION, MANGALURU.
(AUTONOMOUS)**

M.Ed. Two Year Programme

First Semester Test - November 2019

MEH404 : Methodology of Research in Education - I

Time : 3 Hours

Date : 22-11-2019

Max. Marks : 70

Note : There are Two sections in the question paper. Both the sections are compulsory.

Section A

Note : Answer the following questions in about three pages each.

1.a. i) Discuss the scope and functions of educational research.

ii) Compare quantitative and qualitative research. (6+4)

[or]

b. i) Explain the factors involved in the selection of a research problem and steps in the formulation of a research problem.

ii) Discuss any two areas of educational research. (6+4)

2.a. i) Explain the different types of variables with examples.

ii) Explain the characteristics and steps of a good research design. (5+5)

[or]

b. i) Explain the terms 'Population' and 'sample' and analyse the steps involved in the sampling process.

ii) Explain with an example stratified random sampling method. (5+5)

3 a. i) Explain the characteristics and different forms of rating scales.

ii) Explain the methods of establishing validity and suggest measures to increase the validity of a research test. (5+5)

[or]

b. i) Describe the types and procedure of construction of a questionnaire.

ii) Explain the factors affecting reliability of a research tool and explain any one method of establishing reliability of a test. (5+5)

4 a. i) Explain the characteristics and uses of measures of central tendency.

ii) Calculate coefficient of variation for the following grouped data.

Class Interval	Frequency
50 - 54	1
45 - 49	2
40 - 44	6
35 - 39	12
30 - 34	21
25 - 29	10
20 - 24	5
15 - 19	1

N = 60

[or]

(4+6)

b. i) Explain the characteristics of normal probability curve.

ii) Given a distribution of scores of 500 students with a mean of 60 and standard deviation 5 assuming normality find out :

(a) The limits which include the middle 50% of the distribution.

(b) Percentage of scores fall between 50 and 65.

(4+6)

Section B

Note : Answer any **Six** of the following questions in about a page each. (6x5=30)

- 5. a) Explain the steps of scientific method.
- b) Explain the different forms of literature review.
- c) Illustrate the different forms of stating the hypothesis.
- d) Explain quota and purposive sampling methods with an example each.
- e) Discuss the features and applications of Ogive curve in research studies.
- f) Calculate P_{50} and PR_{65} for the following grouped data.

Class Interval	Frequency
90 - 94	4
85 - 89	10
80 - 84	16
75 - 79	20
70 - 74	14
65 - 69	8
60 - 64	8

N = 80

- g) Explain the concept and method of computing 'Z' and 'T' score with an example each.
- h) Explain the characteristics and types of observation as a data collection technique.

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ST. ANN'S COLLEGE OF EDUCATION, MANGALURU.
(AUTONOMOUS)

M.Ed. Two Year Programme
First Semester Test - April 2021

MEH404 : Methodology of Research in Education - I

Time : 3 Hours

Date : 12-04-2021

Max. Marks : 70

Note : There are Two sections in the question paper. Both the sections are compulsory.

Section A

Note : Answer the following questions in about three pages each.

1.a. i) Explain the scope and functions of educational research.

ii) Compare quantitative and mixed method research. (5+5)

[or]

b. i) Explain the sources of research problem and criteria for evaluation of a research problem.

ii) Discuss any two areas of educational research. (6+4)

2.a. i) Explain different forms of stating hypothesis with an example each.

ii) Explain the format of research proposal. (5+5)

[or]

b. i) Explain the terms 'Population' and 'sample' and analyse the steps involved in the sampling process.

ii) Explain with an example multi-stage sampling technique. (5+5)

3 a. i) Describe the types and procedure involved in the construction of a questionnaire.

ii) Explain the factors affecting validity and suggest measures to increase the validity of a research tool. (5+5)

[or]

b. i) Explain the procedure involved in conducting an interview to collect research data.

ii) Give the concept of reliability and explain any two methods of establishing reliability. (5+5)

4 a. i) Explain the uses of graphs in analysis of data.

ii) Calculate variance for the following grouped data.

Class Interval	Frequency
50 - 54	2
45 - 49	4
40 - 44	3
35 - 39	10
30 - 34	12
25 - 29	10
20 - 24	4
15 - 19	5

N = 50

(4+6)

[or]

-: 2 :-

- b. i) Explain the characteristics of Normal Probability Curve (NPC).
ii) Given a distribution of scores of 400 students with a mean of 50 and standard deviation 4 assuming normality find out :
(a) The limits which include the middle 60% of the distribution.
(b) Percentage of scores fall between 40 and 70. (4+6)

Section B

Note : Answer any Six of the following questions in about a page each. (6x5=30)

5. a) Explain the steps of scientific method.
b) Explain the steps of conducting a literature review.
c) Illustrate the different types of variables.
d) Explain quota and incidental sampling methods with an example each.
e) Explain different types of scales of measurement with an example each.
f) Calculate P_{45} and PR_{55} for the following grouped data.

Class Interval	Frequency
85 - 89	10
80 - 84	16
75 - 79	20
70 - 74	14
65 - 69	8
60 - 64	8
55 - 59	4

N = 80

- g) Explain the concept and method of computing 'Z' and 'T' score with an example each.
h) Explain the steps of a good research design.

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**ST ANN'S COLLEGE OF EDUCATION, MANGALURU
(AUTONOMOUS)
M.Ed. Two Year Programme**

Second Semester Test - January 2024

MEH452 : Methodology of Research in Education - I

Time : 3 Hours

Date : 20-01-2024

Max. Marks : 70

Note : 1. Answer Part - I and Part - II questions on separate Answer Sheets.
2. There are two sections in Part I and Part II in the question paper. Both are compulsory.

PART - I

Section A

Note : Answer the following questions in about **four to five** pages each. (2x15=30)

- 1 a) i) Explain the steps of conducting a literature review for research.
ii) Discuss the meaning of educational research and steps of educational research process. (6+9)

OR

- b) i) Explain the steps and limitations of scientific method.
ii) Discuss the sources of a research problem and the criteria for its evaluation. (6+9)

- 2 a) i) Explain the meaning and methods of establishing reliability.
ii) Describe the procedure of construction of an achievement test and its advantages and limitations. (8+7)

OR

- b) i) Explain the forms of rating scales with suitable illustrations.
ii) Discuss the methods of establishing validity and factors influencing validity of a research tool. (8+7)

Section B

Note : Answer any **One** of the following questions in about a page each. (1x5=5)

- 3 a) Explain any two scales of measurement with a suitable example each.
b) Discuss the ethical issues in conducting research.

PART – II

Section A

Note : Answer the following questions in about **four to five** pages each. (2x15=30)

- 1a) i) Discuss the meaning and types of Research variables with examples.
 ii) Explain the characteristics and steps of a good research design. (9+6)
 [or]
- b)i) Explain the procedure of different sampling techniques.
 ii) Discuss different sampling and non-sampling errors. (9+6)
- 2 a) i) Explain the concept of skewness, kurtosis and the characteristics of Normal Probability curve.
 ii) Given a distribution of 400 students with a mean of 70 and SD 6, assuming Normality calculate
 (a) the limits which include highest 40% of the distribution.
 (b) percentage of scores that fall between the scores 60 and 85. (9+6)
 [or]
- b) i) Explain the concept and method of computing ‘Z’ and ‘T’ scores and calculate ‘T’ scores for the given raw scores.

	Score	\bar{X}	σ
English	35	60	1.5
Hindi	42	70	2.4

- ii) Calculate SD and coefficient of variation for the following grouped data.

Class Interval	60 - 64	55 - 59	50 - 54	45 - 49	40 - 44	35 - 39	30 - 34	
Frequency	3	3	6	12	20	10	6	N = 60

(9 +6)

Section B

Note : Answer any **One** of the following questions in about a page each. (1x5=5)

- 3 a) Draw a frequency polygon for the given data.

Class Interval	10 - 14	15 - 19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49
Frequency	4	6	10	15	25	20	15	10

- b) Compute P_{40} and PR_{66} for the following grouped data.

Class Interval	70 - 74	65 - 69	60 - 64	55 - 59	50 - 54	45 - 49	
Frequency	4	5	5	6	12	8	N = 40

**ST ANN'S COLLEGE OF EDUCATION, MANGALURU
(AUTONOMOUS)
M.Ed. Two Year Programme**

Second Semester Test - March 2025

MEH452 : Methodology of Research in Education – I

Time : 3 Hours

Max. Marks : 70

Note : 1. Answer Part - I and Part - II questions on separate Answer Sheets.
2. There are two sections in Part I and Part II in the question paper. Both are compulsory.

PART - I

Section A

Note : Answer the following questions in about **four to five** pages each. (2x15=30)

- 1 a) i) Explain the procedure of conducting a literature review.
ii) Describe the steps in the formulation of a research problem. (9+6)

OR

- b) i) Explain the characteristics of qualitative, quantitative and mixed methods of research.
ii) Discuss the steps of scientific method. (9+6)

- 2 a) i) Explain the properties and use of scales of measurement.
ii) Discuss the procedure of construction of an achievement test its advantages and limitations. (8+7)

OR

- b) i) Explain the concept and methods of establishing validity.
ii) Describe the procedure of conducting an interview with its merits and limitations. (8+7)

Section B

Note : Answer any **One** of the following questions in about a page each. (1x5=5)

- 3 a) Explain the ethical issues in conducting research.
b) Discuss the measures to increase reliability of a test.

PART – II

Section A

Note : Answer the following questions in about **four to five** pages each. (2x15=30)

- 1a) i) Explain the meaning and types research hypothesis.
ii) Discuss the steps in the sampling process. (7+8)
[or]
b)i) Discuss the meaning and characteristics of a good research design.
ii) Describe different types of probability sampling methods. (7+8)
- 2 a) i) Explain the properties of Normal Probability Curve and calculate the following:
Given a distribution of 400 students with a mean of 80 and SD 4, assuming normality, find
(a) The limits which include lowest 20% of the distribution.
(b) The percentage of scores that fall between the scores 60 and 90.
ii) Explain the concept of 'z' score and 'T' score with suitable examples. (10+5)
[or]
b) i) Discuss the concept of measures of relative positions and calculate P_{50} and PR_{45} for the following data.

Class Interval	Frequency
60 - 64	3
55 - 59	3
50 - 54	6
45 - 49	12
40 - 44	20
35 - 39	10
30 - 34	6
	N = 60

- ii) Explain the uses of measures of variability. (10+5)

Section B

Note : Answer any **One** of the following questions in about a page each. (1x5=5)

- 3 a) Explain the casual model based variables with suitable illustrations.
b) Calculate standard deviation for the following data.

Class Interval	80 - 84	75 - 79	70 - 74	65 - 69	60 - 64	55 - 59	50 - 54	Total
Frequency	2	6	5	11	10	15	1	50