

M.Ed. Two year Programme

I SEM- FINAL EXAM PAPERS

2015 -

Name : M.Ed: 01:(a) Methodology of Research
Address : In Education - I
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Department :
Subject :
Phone/Fax No.:
E-mail :
File No. :



PEARL Tag File

Filing System

Reg. No.

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ST. ANN'S COLLEGE OF EDUCATION, MANGALORE.
(AUTONOMOUS)
M.Ed. Two Year Programme – Choice Based Credit System (CBCS)

First Semester Examination – January 2016
(Semester Scheme)

M.Ed.4(a) : METHODOLOGY OF RESEARCH IN EDUCATION - I

Time : 3 Hours

Max. Marks : 70

Instructions : 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 characteristics and functions of Educational Research.
ii) Compare quantitative, qualitative and mixed method Research Paradigms. (5+5)

OR

- b) i) Explain the criteria for selection and steps in the formulation of a Research Problem.
ii) Discuss the need and significance of Review of Literature at different stages of research. (5+5)

- 2 a) i) Explain the characteristics and steps of a Research Design.
ii) Illustrate with examples different forms of Hypotheses. (5+5)

OR

- b) i) Enumerate the characteristics of a good Sample and analyse the steps involved in the Sampling Process.
ii) Explain the format of a Research Proposal. (5+5)

- 3 a) i) Explain the steps of conducting an Interview and list its merits and limitations as a method of data collection.
ii) Suggest measures to increase the Validity of a research tool. (5+5)

OR

- b) i) Explain the steps involved in the construction of a Questionnaire.
ii) Explain the factors affecting Reliability of a research tool and explain any one method of establishing its Reliability. (5+5)

- 4 a) i) Explain the characteristics and uses of measures of Central Tendency.
ii) Compute Standard Deviation Coefficient for the following grouped data. (3+7)

Class Interval	Frequency
80 - 84	2
75 - 79	2
70 - 74	5
65 - 69	12
60 - 64	9
55 - 59	8
50 - 54	6
45 - 49	4
40 - 44	2

N = 50

Contd...2.

OR

- b) i) Explain the features and applications of Ogive Curve in research studies.
ii) Calculate P_{80} and PR_{60} for the following grouped data. (4+6)

Class Interval	Frequency
60 - 64	4
55 - 59	4
50 - 54	8
45 - 49	10
40 - 44	8
35 - 39	6
30 - 35	4

$$N = 44$$

Section B

Note : Answer any six of the following questions in not more than two pages each.
(6x5=30)

- 5 a) Explain the Ethical Issues in conducting Social Science research.
b) Discuss the steps of conducting Literature Review.
c) Explain with an example the procedure of Stratified Sampling Method.
d) Explain the characteristics of four Scales of Measurement.
e) Discuss the features and merits of Quota Sampling and Purposive Sampling methods.
f) Give the meaning of 'z' score and 'T' score and convert the raw scores 40 and 60 with a mean of 55 and standard deviation of 4.
g) Discuss any two areas of Educational Research.
h) Explain the different forms of Rating Scales.

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Reg. No.

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ST. ANN'S COLLEGE OF EDUCATION, MANGALORE.
(AUTONOMOUS)
M.Ed. Two Year Programme – Choice Based Credit System (CBCS)

First Semester Examination – January 2017
(Semester Scheme)

MEH404 : METHODOLOGY OF RESEARCH IN EDUCATION - I

Time : 3 Hours

Max. Marks : 70

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

ಸೂಚನೆ : ಪ್ರಶ್ನೆ ಪತ್ರಿಕೆಯಲ್ಲಿ ಎರಡು ವಿಭಾಗಗಳಿವೆ. ಎರಡೂ ವಿಭಾಗಗಳೂ ಕಡ್ಡಾಯವಾಗಿವೆ.

Section A / ವಿಭಾಗ ಎ

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

ಸೂಚನೆ : ಈ ಕೆಳಗಿನ ಪ್ರಶ್ನೆಗಳಿಗೆ ತಲಾ ಮೂರು ಪುಟಗಳಷ್ಟು ಉತ್ತರಿಸಿ.

1 a) i) Explain the characteristics of Quantitative and Qualitative Research.

ii) Discuss the functions of Educational Research.

i) ಪರಿಮಾಣಾತ್ಮಕ ಹಾಗೂ ಗುಣಾತ್ಮಕ ಸಂಶೋಧನಾ ಗುಣಲಕ್ಷಣಗಳನ್ನು ವಿವರಿಸಿ.

ii) ಶೈಕ್ಷಣಿಕ ಸಂಶೋಧನೆಯ ಕಾರ್ಯಗಳನ್ನು ಚರ್ಚಿಸಿ.

(5+5)

OR/ಅಥವಾ

b) i) Discuss the sources for selection of a Research Problem.

ii) Explain the steps of conducting a Literature Review.

i) ಸಂಶೋಧನಾ ಸಮಸ್ಯೆಯ ಆಯ್ಕೆಯ ಆಕರಗಳನ್ನು ಚರ್ಚಿಸಿ.

ii) ಸಾಹಿತ್ಯವಲೋಕನವನ್ನು ಮಾಡುವ ಹಂತಗಳನ್ನು ವಿವರಿಸಿ.

(5+5)

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

ii) Explain the characteristics and steps of a Research Design.

i) ಸಂಶೋಧನಾ ಚಲಕಗಳ ವಿಧಗಳನ್ನು ಉದಾಹರಣೆಯೊಂದಿಗೆ ವಿವರಿಸಿ.

ii) ಸಂಶೋಧನಾ ವಿನ್ಯಾಸದ ಗುಣಲಕ್ಷಣಗಳನ್ನು ಹಾಗೂ ಹಂತಗಳನ್ನು ವಿವರಿಸಿ.

(5+5)

OR/ಅಥವಾ

b) i) Explain the terms 'Population' and 'Sample' with appropriate examples.

ii) Explain the format of a Research Proposal.

i) 'ಸಮಷ್ಟಿ' ಮತ್ತು 'ಪ್ರತಿದರ್ಶನ' ಈ ಪದಗಳನ್ನು ಸೂಕ್ತ ಉದಾಹರಣೆಗಳೊಂದಿಗೆ ವಿವರಿಸಿ.

ii) ಸಂಶೋಧನಾ ಪ್ರಸ್ತಾವನೆಯ ರೂಪುರೇಷೆಗಳನ್ನು ವಿವರಿಸಿ.

(5+5)

3 a) i) Explain the types of Observation in Research.

ii) Explain the factors affecting Reliability of a research tool and explain any one method of establishing Reliability of a test.

i) ಸಂಶೋಧನೆಯಲ್ಲಿನ ವೀಕ್ಷಣೆಯ ವಿಧಗಳನ್ನು ವಿವರಿಸಿ.

ii) ಸಂಶೋಧನಾ ಸಾಧನದ ವಿಶ್ವಾಸನೀಯತೆಯ ಮೇಲೆ ಪರಿಣಾಮ ಬೀರುವ ಅಂಶಗಳನ್ನು ವಿವರಿಸಿ ಹಾಗೂ ಅದರ

ವಿಶ್ವಾಸನೀಯತೆಯನ್ನು ಧೃಢಪಡಿಸುವ ಯಾವುದಾದರೂ ಒಂದು ವಿಧಾನವನ್ನು ವಿವರಿಸಿ.

(4+6)

OR/ಅಥವಾ

Contd...2.

- b) i) Explain the methods of Establishing Validity of a tool.
 ii) Explain the steps in conducting an interview and list its limitations as a method of data collection.
 i) ಪರೀಕ್ಷಣದ ಸಮಂಜಸತೆಯನ್ನು ನಿರ್ಧರಿಸುವ ವಿಧಾನಗಳನ್ನು ವಿವರಿಸಿ.
 ii) ದತ್ತಾಂಶ ಸಂಗ್ರಹಣ ವಿಧಾನವಾಗಿ ಸಂದರ್ಶನವನ್ನು ನಡೆಸುವ ಹಂತಗಳನ್ನು ವಿವರಿಸಿ ಹಾಗೂ ಅದರ ಮಿತಿಗಳನ್ನು ಪಟ್ಟಿಮಾಡಿ. (6+4)

- 4 a) i) Explain the characteristics and uses of measures of Variability.
 ii) Compute Standard Deviation Coefficient for the following grouped data. (4+6)

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

$$N = 60 \text{ } \cancel{58}$$

- i) ವಿಚಲನ ಶೀಲತೆಯ ಮಾಪನಗಳ ಗುಣಲಕ್ಷಣಗಳನ್ನು ಹಾಗೂ ಉಪಯೋಗಗಳನ್ನು ವಿವರಿಸಿ.
 ii) ಈ ಕೆಳಗಿನ ದತ್ತಾಂಶಗಳಿಗೆ ಮಾನಕ ವಿಚಲನೆಯ ಗುಣಾಂಕವನ್ನು ಲೆಕ್ಕಾಚಾರ ಮಾಡಿ.

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

$$N = 60 \text{ } \cancel{58}$$

OR/ಅಥವಾ

- b) i) Explain the features and applications of Ogive curve in research studies.
 ii) Calculate Percentile P_{35} and Percentile Rank PR_{60} for the following grouped data.

Class Interval	Frequency
60 - 64	4
55 - 59	4
50 - 54	4
45 - 49	8
40 - 44	12
35 - 39	8

$$N = 40$$

Contd...3.

- i) ಒಗೈವ್ ವಕ್ರರೇಖೆಯ ಲಕ್ಷಣಗಳು ಹಾಗೂ ಸಂಶೋಧನಾ ಅಧ್ಯಯನದಲ್ಲಿ ಅವರ ಅನ್ವಯಗಳನ್ನು ವಿವರಿಸಿ.
 ii) ಈ ಕೆಳಗಿನ ವರ್ಗೀಕೃತ ದತ್ತಾಂಶದ 35ನೇ ಶತಾಂಕ (P_{35}) ಹಾಗೂ ಶತಾಂಶ ಶ್ರೇಣಿ 60 (PR_{60}) ಗಳನ್ನು ಲೆಕ್ಕಾಚಾರ ಮಾಡಿ.

ವರ್ಗಾಂತರ	ಆವೃತ್ತಿ
60 - 64	4
55 - 59	4
50 - 54	4
45 - 49	8
40 - 44	12
35 - 39	8

$N = 40$

(4+6)

Section B / ವಿಭಾಗ ಬಿ

5. Answer any Six of the following questions in about a page each. 6 x 5=30

ಈ ಕೆಳಗಿನ ಯಾವುದಾದರೂ ಆರು ಪ್ರಶ್ನೆಗಳಿಗೆ ತಲಾ ಒಂದು ಪುಟದಷ್ಟು ಉತ್ತರಿಸಿ.

- a) Explain the steps of Scientific method with an example.
 ವೈಜ್ಞಾನಿಕ ವಿಧಾನದ ಹಂತಗಳನ್ನು ಒಂದು ಉದಾಹರಣೆಯೊಂದಿಗೆ ವಿವರಿಸಿ.
- b) Discuss any two areas of Educational Research.
 ಶೈಕ್ಷಣಿಕ ಸಂಶೋಧನೆಯ ಯಾವುದಾದರೂ ಎರಡು ಕ್ಷೇತ್ರಗಳನ್ನು ಚರ್ಚಿಸಿ.
- c) Explain the different types and forms of stating Hypothesis with examples.
 ಪ್ರಾಕಲ್ಪನೆಯ ವಿಧಗಳು ಹಾಗೂ ಅವುಗಳನ್ನು ವ್ಯಕ್ತಪಡಿಸುವ ವಿವಿಧ ವಿಧಗಳನ್ನು ಉದಾಹರಣೆಗಳೊಂದಿಗೆ ವಿವರಿಸಿ.
- d) Explain the Multi Stage Sampling method with an example.
 ಬಹುಹಂತಗಳ ಪ್ರತಿಚಯನ ವಿಧಾನವನ್ನು ಒಂದು ಉದಾಹರಣೆಯೊಂದಿಗೆ ವಿವರಿಸಿ.
- e) Explain Quota and Purposive Sampling with an example each.
 ಪಾಲು ಮತ್ತು ಉದ್ದೇಶಿತ ಪ್ರತಿಚಯನ ವಿಧಾನವನ್ನು ಸೂಕ್ತ ಉದಾಹರಣೆಯೊಂದಿಗೆ ವಿವರಿಸಿ.
- f) Explain the steps involved in the construction of a Questionnaire.
 ಪ್ರಶ್ನಾವಳಿಯ ತಯಾರಿಯು ಒಳಗೊಂಡಿರುವ ಹಂತಗಳನ್ನು ವಿವರಿಸಿ.
- g) Explain the characteristics of the four types of Scales of Measurement.
 ಅಳತೆಯ ನಾಲ್ಕು ಮಾಪನಗಳ ಗುಣಲಕ್ಷಣಗಳನ್ನು ವಿವರಿಸಿ.
- h) Explain the concept of 'z' and 'T' score.
 'z' ಅಂಕ ಹಾಗೂ 'T' ಅಂಕಗಳ ಪರಿಕಲ್ಪನೆಯನ್ನು ವಿವರಿಸಿ.

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Reg. No.

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ST. ANN'S COLLEGE OF EDUCATION, MANGALURU.
(AUTONOMOUS)
M.Ed. Two Year Programme – Choice Based Credit System (CBCS)
First Semester Examination – January 2018
(Semester Scheme)

MEH404 : METHODOLOGY OF RESEARCH IN EDUCATION - I

Time : 3 Hours

Max. Marks : 70

Instructions : 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) List the basic assumptions and explain the steps of scientific method.
ii) Compare quantitative and qualitative research. (6+4)

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. (6+4)

- 2 a) i) Explain the different types of variables with examples.
ii) Explain the format of a research proposal. (5+5)

OR

- b) i) Enumerate the characteristics of a good 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 of four scales of measurement.
ii) Explain the methods of establishing validity and suggest measures to increase the validity of a research tool. (4+6)

OR

- b) i) Explain the different forms of rating scales.
ii) Describe the factors affecting reliability and any one method of establishing reliability of a research tool. (4+6)

- 4 a) i) Explain the concept and method of computing 'z' and 'T' scores with an example.
ii) Compute Standard Deviation Coefficient for the following grouped data.

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

N = 50

(4+6)

Contd...2.

OR

- b) i) State the characteristics of Normal Probability Curve (NPC).
 ii) Given a distribution of 400 students with a mean of 65 and SD 4, assuming normality calculate :
 (a) the limits which include the highest 30% of the distribution.
 (b) percentage of scores that fall between score 50 and 80. (4+6)

Section B

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

(6x5=30)

- 5 a) Explain the characteristics and functions of educational research.
 b) Discuss any two areas of educational research.
 c) Explain the characteristics and steps of a good research design.
 d) Explain quota sampling and convenience sampling methods with an example for each.
 e) Explain the different types and forms of stating hypotheses with examples.
 f) Explain the various techniques of observation in research.
 g) Calculate P_{60} and PR_{75} 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

- h) Discuss the features and applications of Ogive curve in research studies.

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Reg. No.

ST. ANN'S COLLEGE OF EDUCATION, MANGALURU.
(AUTONOMOUS)
M.Ed. Two Year Programme – Choice Based Credit System (CBCS)

First Semester Examination – January 2019
(Semester Scheme)

MEH404 : METHODOLOGY OF RESEARCH IN EDUCATION - I

Time : 3 Hours

Max. Marks : 70

Instructions : 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 characteristics and functions of educational research.
ii) Compare quantitative, qualitative and mixed research method paradigm. (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 forms of stating hypothesis with an example each.
ii) Explain the format of a research proposal. (5+5)

OR

- b) i) Enumerate the characteristics of a good sample and analyse the steps involved in the sampling process.
ii) Explain with an example multi-stage sampling method. (5+5)

- 3 a) i) Explain the characteristics and different forms of questionnaire as a research tool.
ii) List the factors affecting reliability and explain any one method of establishing reliability of a research tool. (5+5)

OR

- b) i) Explain the types and steps in conducting an interview.
ii) Explain the methods of establishing validity and suggest measures to increase the validity of a research tool. (5+5)

- 4 a) i) Explain the concept and method of computing 'z' and 'T' scores with an example.
ii) Compute Standard Deviation Coefficient for the following grouped data.

Class Interval	Frequency
80 - 84	2
75 - 79	2
70 - 74	5
65 - 69	12
60 - 64	9
55 - 59	8
50 - 54	2

N = 40

(4+6)

Contd...2.

OR

- b) i) Explain the concept and reason for Skewness and Kurtosis in a distribution.
 ii) Given a distribution of 400 students with a mean of 70 and SD 6, assuming normality calculate :
 (a) the limits which include the highest 40% of the distribution.
 (b) percentage of scores that fall between score 60 and 85. (4+6)

Section B

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

- 5 a) Discuss the scope of educational research.
 b) Discuss any two areas of educational research.
 c) Explain the characteristics and steps of a good research design.
 d) Explain purposive sampling and incidental sampling methods with an example each.
 e) Explain the different types of variables with an example each.
 f) Describe the various techniques of observation in research.
 g) Calculate P_{30} and PR_{80} for the following data.

Class Interval	Frequency
90 - 94	6
85 - 89	8
80 - 84	10
75 - 79	8
70 - 74	14
65 - 69	9
60 - 64	5

$N = 60$

- h) Discuss the features and applications of Ogive curve in research studies.

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Reg. No.

ST. ANN'S COLLEGE OF EDUCATION, MANGALURU.
(AUTONOMOUS)
M.Ed. Two Year Programme – Choice Based Credit System (CBCS)
First Semester Examination – December 2019
(Semester Scheme)

MEH404 : METHODOLOGY OF RESEARCH IN EDUCATION - I

Time : 3 Hours

Max. Marks : 70

Instructions : 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) Compare quantitative, qualitative and mixed method research paradigms.
ii) Discuss the scope of Educational Research. (6+4)

OR

- b) i) Discuss sources for selection and criteria for evaluation of a Research Problem.
ii) Explain the purpose and need for the review of literature at different stages of Educational Research. (5+5)

- 2 a) i) Explain the different types of variables with an example for each.
ii) Explain the characteristics and steps of a Research Design. (5+5)

OR

- b) i) Enumerate the characteristics of a good sample and analyse the steps involved in the Sampling Process.
ii) Explain the purposive and incidental sampling with an example each. (6+4)

- 3 a) i) Explain the characteristics of four Scales of Measurement.
ii) Explain the steps in conducting an Interview and list its limitations as a method of data collection. (5+5)

OR

- b) i) Illustrate different forms of Rating Scales.
ii) List the factors affecting Reliability and explain any one method of establishing reliability of a research tool. (5+5)

- 4 a) i) Explain the characteristics and uses of measures of variability.
ii) Compute Standard Deviation Coefficient 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

(4+6)

Contd...2.

OR

- b) i) Explain the concept and reasons for Skewness and Kurtosis in a distribution.
ii) Given a distribution of 600 students with a mean of 70 and SD 5, assuming normality calculate :
(a) the limits which include the highest 30% of the distribution.
(b) the percentage of scores that fall between the scores 60 and 75. (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 with an example.
b) Discuss any two areas of Educational Research.
c) Explain the Stratified Random Sampling technique with an example.
d) Explain the format of a Research Proposal.
e) Explain the characteristics and forms of Questionnaire as a research tool.
f) Explain the concept and method of computing 'Z' and 'T' scores with an example.
g) Explain the methods of Establishing Validity.
h) Compute P_{40} and PR_{57} for the following grouped data.

Class Interval	Frequency
60 - 64	4
55 - 59	4
50 - 54	4
45 - 49	8
40 - 44	12
35 - 39	8

$$N = 40$$

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Reg. No.

ST. ANN'S COLLEGE OF EDUCATION, MANGALURU.
(AUTONOMOUS)
M.Ed. Two Year Programme – Choice Based Credit System (CBCS)
First Semester Examination - July/August 2021
(Semester Scheme)

MEH404 : METHODOLOGY OF RESEARCH IN EDUCATION - I

Time : 3 Hours

Max. Marks : 70

Instructions : 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 steps of educational research process.
ii) Compare quantitative, qualitative and mixed method research paradigms. (4+6)

OR

- b) i) Discuss any two potential areas of educational research.
ii) Explain the sources of research problem and steps in the formulation of a research problem. (4+6)

- 2 a) i) Explain the causal model based variables with an example each.
ii) Describe the format of a research proposal. (5+5)

OR

- b) i) Explain the different forms of stating hypothesis with an example each.
ii) Enumerate the characteristics of a good sample and analyse the steps involved in the sampling process. (5+5)

- 3 a) i) Explain the characteristics and steps involved in the construction of a summated rating scale.
ii) List the factors affecting reliability and suggest measures to increase the reliability of a research tool. (5+5)

OR

- b) i) Explain the types of conducting observation in research.
ii) Explain the methods of establishing validity and suggest measures to increase the validity of a research tool. (5+5)

- 4 a) i) Explain the applications of Ogive curve in research studies.
ii) Calculate the Coefficient of variation for the following grouped 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

(3+7)

Contd...2.

OR

- b) i) Explain the characteristics of Normal Probability Curve (NPC).
ii) Given a distribution of 500 students with a mean of 60 and SD 4, assuming normality calculate :
(a) the limits which include the lowest 25% of the distribution.
(b) the percentage of scores that fall between scores 50 and 75. (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) Discuss the purpose and need for the review of literature at different stages of Educational Research.
c) Explain the characteristics of a good research design.
d) Explain cluster and quota sampling techniques with an example each.
e) Describe the steps involved in the construction of a Questionnaire.
f) Illustrate different types of scales of measurement.
g) Compute P_{40} and PR_{60} for the following grouped data.

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

$N = 40$

- h) Explain the concept and method of computing 'Z' and 'T' score with an example each.

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ST. ANN'S COLLEGE OF EDUCATION, MANGALURU.
(AUTONOMOUS)
M.Ed. Two Year Programme – Choice Based Credit System (CBCS)

First Semester Examination - July 2022
(Semester Scheme)

MEH404 : METHODOLOGY OF RESEARCH IN EDUCATION - I

Time : 3 Hours

Max. Marks : 70

Instructions : 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.

- 1a) i) Explain the steps and limitations of scientific method.
ii) Elucidate the primary and secondary sources of information for review of literature. (5+5)

OR

- b) i) Explain the steps in the formulation of a research problem.
ii) Discuss the ethical issues in conducting research. (5+5)

- 2 a) i) Explain the causal model based types of variables with an illustration.
ii) Elucidate the procedure of selecting a multi-stage cluster sampling with an illustration. (5+5)

OR

- b) i) Write a hypothesis for a research study of your choice and state the same in different forms.
ii) Discuss the characteristics of a good research design. (4+6)

- 3 a) i) Discuss the sources of errors in measurement.
ii) Explain the procedure of construction of a checklist. (5+5)

OR

- b) i) List out the merits and demerits of observation as a method of data collection.
ii) Explain the factors influencing validity of a research tool. (5+5)

- 4 a) i) Enumerate the properties of normal probability curve.
ii) Calculate quartile deviation for the given data. (5+5)

C.I	0-4	5-9	10-14	15-19	20-24	25-29
f	2	6	8	10	6	4

OR

- b) i) Explain the concepts of Skewness and Kurtosis.
ii) Given a distribution of 400 students with a mean of 70 and SD 6, assuming normality calculate :
(a) the limits which include the highest 40% of the distribution.
(b) percentage of scores that fall between scores 60 and 85. (4+6)

Contd...2.

Section B

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

- 5 a) Explain the scope of educational research.
- b) Discuss the sources of a research problem.
- c) Differentiate between active and attribute variables.
- d) Explain the criteria of a good sample.
- e) Explain the properties and uses of interval and ratio scales.
- f) Elucidate the characteristics of focussed interview.
- g) Calculate T scores for the given raw scores and compare the scores in both the subjects.

	Score	\bar{x}	σ
Physics	35	60	1.5
Mathematics	42	70	2.4

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

C.I	f
10-14	4
15-19	6
20-24	10
25-29	15
30-34	25
35-39	20
40-44	15
45-49	10

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**ST ANN'S COLLEGE OF EDUCATION, MANGALURU
(AUTONOMOUS)
M.Ed. Two Year Programme – Choice Based Credit System (CBCS)**

**Second Semester Examination - February 2024
(Semester Scheme)**

MEH 452 : METHODOLOGY OF RESEARCH IN EDUCATION – I

Time : 3 Hours

Max. Marks : 70

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

Section A

Note : Answer the following questions in about FOUR to FIVE pages each.

1a) i) Explain the meaning of educational research and the steps of educational research process.

ii) Describe the criteria for evaluation of a research problem. (9+6)

OR

b) i) Explain the purpose and steps of conducting a literature review.

ii) Discuss the ethical issues in conducting educational research. (9+6)

2a) i) Explain the meaning and procedure of probability sampling methods.

ii) Discuss the characteristics and steps of a good research design. (8+7)

OR

b) i) Explain the causal based model of variables with suitable illustrations.

ii) Discuss the steps in the sampling process. (8+7)

3a) i) Explain the meaning and properties of scales of measurement.

ii) Explain the characteristics and procedure of construction of check list as a tool of research. (8+7)

OR

b) i) Elucidate the meaning of reliability and the methods of establishing reliability.

ii) Explain the types and steps of conducting an interview and enumerate its merits and limitations. (8+7)

Contd...2.

4 a) i) Explain the uses of measures of variability and calculate P_{60} and PR_{75} 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

ii) Explain the concept of 'Z' score and 'T' score. (10+5)

OR

b) i) Explain the concept and reasons for skewness and kurtosis and calculate the following: Given a distribution of 600 students with a mean of 70 and SD 5, assuming normality, find

a) The limits which include the highest 30% of the distribution

b) The percentage of scores that fall between 60 and 75.

ii) Discuss the features and applications of Ogive curve in research studies. (9+6)

Section B

Note : Answer any Two of the following questions in about a page each. (2x5=10)

5. a) Compute standard deviation 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

b) Explain the format of a research proposal.

c) Discuss the methods of establishing validity.

d) Explain the sources of a research problem.

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**ST ANN'S COLLEGE OF EDUCATION
(AUTONOMOUS), MANGALURU
M.Ed. Two Year Programme – Choice Based Credit System (CBCS)**

**Second Semester Examination - April 2025
(Semester Scheme)**

MEH 452: METHODOLOGY OF RESEARCH IN EDUCATION- I

Time: 3 Hours

Max. Marks: 70

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

Section A

Note: Answer the following questions in about FOUR to FIVE pages each.

- 1a) i) Explain the steps of literature review and its need at different stages of research.
ii) Discuss the areas of educational research. (10+5)

OR

- b) i) Explain the sources of a research problem and the criteria for its evaluation.
ii) Describe the characteristics of mixed method research. (10+5)

- 2a) i) Explain the criteria of a good sample and steps of sampling.
ii) Describe the format of a research proposal. (7+8)

OR

- b) i) Explain the types of hypotheses with appropriate illustrations.
ii) Discuss any two types of non probability sampling methods with an example each. (7+8)

- 3a) i) Explain the meaning of validity and the methods of establishing validity.
ii) Describe the characteristics and procedure of construction of a checklist with an illustration of four items. (7+8)

OR

- b) i) Describe the properties of scales of measurement.
ii) Explain the characteristics, types and merits of observation as a tool of research. (7+8)

...2.

- 4 a) i) Explain the concept and uses of measures of central tendency and compute standard deviation for the following data.

Class Interval	80-84	75-79	70-74	65-69	60-64	55-59	50-54	45-49	40-44
Frequency	2	2	5	12	9	8	6	4	2

- ii) Explain the characteristics and uses of measures of variability. (9+6)

OR

- b) i) Explain the concept and method of computing 'Z' and 'T' scores and calculate 'Z' and 'T' scores for the following data

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

- ii) Explain the characteristics of a Normal Probability Curve. (9+6)

Section B

Note : Answer any Two of the following questions in about a page each. (2x5=10)

5. a) Calculate P_{60} and PR_{75} for the following data.

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

- b) Explain the measures to increase reliability of a test.
 c) Describe causal model based variables.
 d) Explain the steps of educational research process.

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