

PURBANCHAL UNIVERSITY

2015

Bachelor in Information Technology (B.I.T.)/Sixth Semester/ Final
Time: 01:30 hrs.

Full Marks: 40/Pass Marks: 16

BIT308SH: Research Methodology (New Course)

Candidates are required to give their answers in their own words as far as practicable.

Figure in the margin indicate full marks.

Answer FIVE questions.

5×8=40

1. What is research? Discuss fundamental and applied research. 2+6
2. What is research design? Explain the elements of research design. 2+6
3. What is sampling? Explain simple random, stratified and systematic sampling. 2+6
4. Define level of significance in hypothesis. Suppose, the research problem is to determine whether there is a difference between male and female student in their grade in a university. Make: (i) general objective, (ii) specific objective, (iii) null and alternative hypothesis. 2+6
5. Explain briefly the role of a research report to ITcians? Give a complete format of a report, which is generally adopted while preparing a report. 3+5
6. Write short notes on any TWO: 4+4
 - (a) Testing of hypothesis
 - (b) Co-relational and Casual Comparative research Design
 - (c) Parametric and Non-Parametric test in hypothesis

PURBANCHAL UNIVERSITY

2016

Bachelor in Information Technology (B.I.T.)/Sixth Semester/Final

Time: 01:30 hrs.

Full Marks: 40/Pass Marks: 16

BIT308SH: Research Methodology (New Course)

Candidates are required to give their answers in their own words as far as practicable.

Figure in the margin indicate full marks.

Answer FIVE questions.

5×8=40

1. What do you mean by research? Explain various stages of Research Process. 3+5
2. What is research design? Describe any two research design. 3+5
3. Explain the various types of probability sampling. Explain the interview method of data collection. 4+4
4. What do you mean by statistical hypothesis? Explain Null and Alternative hypothesis. Differentiate between parametric and non parametric test. 2+3+3

Or

A manufacturer claims that at least 90% of his goods supplied confirm to specifications. A sample of 100 pieces has shown that 20 were faulty. Test his claim at 5% level of significance. (Use Table Value of z at 5% level for one tail test: 1.645 and Two tail Test: 1.960) 8

5. What do you mean by research report? Explain the brief in contents and style of report. 2+6
6. Write short notes on any TWO: 4+4
 - (a) Fundamental Research
 - (b) Literature review
 - (c) Secondary Data
 - (d) Bibliography
 - (e) Case Study

PURBANCHAL UNIVERSITY

2017

Bachelor in Information Technology (B.I.T.)/Sixth Semester/*Final*

Time: 01:30 hrs.

Full Marks: 40/Pass Marks: 16

BIT308SH: Research Methodology (New Course)

Candidates are required to give their answers in their own words as far as practicable.

Figure in the margin indicate full marks.

Answer FIVE questions.

5×8=40

1. What is scientific research? Briefly discuss the case study research. 3+5
2. What do you mean by types of research design? Briefly explain their features with example. 3+5
3. What is sampling? Why is it important in research? 3+5
4. What is project? Discuss different methods of field work and feasible study. 3+5
5. What do you mean by statistical hypothesis and level of significance? Discuss in brief. 8
6. Write short notes on any TWO: 4+4
 - (a) Questionnaire and observation
 - (b) Differentiate parametric and non-parametric test
 - (c) Use of quotations in research report

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PURBANCHAL UNIVERSITY

2018

Bachelor in Information Technology (B.I.T.)/Sixth Semester/ *Final*

Time: 01:30 hrs.

Full Marks: 40/Pass Marks: 16

BIT308SH: Research Methodology (New Course)

Candidates are required to give their answers in their own words as far as practicable.

Figure in the margin indicate full marks.

Answer FIVE questions.

5×8=40

1. Define research? What are its objectives? Discuss about Fundamental and Applied Research. 2+2+4
2. Define research design? Discuss the elements of research design. 2+6
3. Distinguish between primary and secondary data. Give an example of a research problem that could be solved by using both primary and secondary data 4+4
4. What is sampling? Discuss the different types of sampling. 2+6
5. What is research report? What is the purpose of report writing? Differentiate between descriptive and analytical report. 2+2+4
6. Write short notes on any TWO: 4+4
 - (a) Correlational Research
 - (b) Testing of hypothesis
 - (c) Case study



PURBANCHAL UNIVERSITY

2021

Bachelor in Information Technology (B.I.T.)/Sixth Semester/ *Final*

Time: 01:30 hrs.

Full Marks: 40/Pass Marks: 16

BIT308SH: Research Methodology (*New Course*)

Candidates are required to give their answers in their own words as far as practicable.

Figure in the margin indicate full marks.

Answer FIVE questions.

5×8=40

1. Define research and discuss applied and fundamental research.
2. What are true concept of research design? Distinguish between historical and descriptive Research design.
3. Define probability sampling. Briefly discuss simple random, stratified and systematic sampling.
4. What is the importance of data collection in research? Differentiate primary data and Secondary data.
5. What is report writing? Discuss descriptive and analytical report.
6. Write short note on any TWO:
(a) Reliability and validity
(b) Bibliography
(c) Case study

2×4=8



PURBANCHAL UNIVERSITY

2022

Bachelor in Information Technology (B.I.T.)/Sixth Semester / Final

Time: 01:30 hrs.

Full Marks: 40/Pass Marks: 16

BIT308SH: Research Methodology (New Course)

Candidates are required to give their answers in their own words as far as practicable.

Figure in the margin indicate full marks.

Answer FIVE questions.

5×8=40

1. Define fundamental research. Explain scientific research process in brief. 3+5
2. Write the importance of project work. Discuss the descriptive and action research as a type of research design. 3+5
3. Differentiate between primary data and secondary data with examples.
4. In an urban district of Nepal, women's family planning measures adoption rate was 60 percent. To increase this rate, various awareness programs were implemented. After the end of the program phase, 500 married women of age 15-49 were taken randomly. Out of total samples, it was found that 400 were adopted family planning measures. Test your hypothesis whether the programs have been successful to increase family planning measures at 95 percent ($Z = 1.645$) and 99 percent ($Z = 2.326$) level of significance.
5. What is purpose of report writing? Discuss major types of report. 3+5
6. Write short note on any TWO: 2×4=8
 - (a) Snowball sampling
 - (b) Bibliography
 - (c) Level of significance



PURBANCHAL UNIVERSITY

2019

Bachelor in Information Technology (B.I.T.)/Sixth Semester/ *Final*

Time: 01:30 hrs.

Full Marks: 40/Pass Marks: 16

BIT308SH: Research Methodology (*New Course*)

Candidates are required to give their answers in their own words as far as practicable.

Figure in the margin indicate full marks.

Answer FIVE questions.

5×8=40

1. ✓ What is scientific research? Discuss the various elements of scientific research process. 2+6
2. ✓ Briefly explain meaning and concept of research design and discuss descriptive research design. 4+4
3. 3. What is non-probability sampling? Explain quota sampling and convenience sampling with example. 2+6
4. ✓ 4. What is statistical hypothesis? Distinguish between parametric and non-parametric tests. 3+5
5. ✓ 5. What is the purpose of research report? Briefly explain the style of research report. 3+5
6. ✓ 6. Write short note on any TWO: 2×4=8
 - (a) Project work
 - (b) Validity
 - (c) Primary and secondary data