## C.U.SHAH UNIVERSITY

## **Summer Examination-2017**

**Subject Name: Research Methodology** 

**Subject Code**: 5TE02RSM1 **Branch**: M.Tech (All)

Semester: 2 Date: 02/05/2017 Time: 02:00 To 05:00 Marks: 70

## **Instructions:**

- (1) Use of Programmable calculator and any other electronic instrument is prohibited.
- (2) Instructions written on main answer book are strictly to be obeyed.
- (3) Draw neat diagrams and figures (if necessary) at right places.
- (4) Assume suitable data if needed.

## SECTION - I

| Q-1 |   | Attempt the Following questions   | (07) |
|-----|---|---|------|
|     |   |   |      |
|     |   | Define patent.  | 1    |
|     |   | Define Questionnaire  | 1    |
|     |   | what is Trademark?  | 1    |
|     |   | d. Define scaling.  | 1    |
|     |   | e. What is citation?  | 1    |
|     |   | What is intellectual property?  | 1    |
|     |   | What do you mean by Abstract?   | 1    |
| Q-2 |   | Attempt all questions   | (14) |
|     | a | Write and explain the components of thesis and reports                                | 7    |
|     | b | Discuss different types of errors in research   | 7    |
|     |   | OR  |      |
| Q-2 |   | Attempt all questions   | (14) |
|     | a | Explain about qualitative and quantitative methods of Research design briefly.        | 7    |
|     | b | What do you mean by Literature Review? Write the use of literature review in research | 7    |
| Q-3 |   | Attempt all questions   | (14) |
|     | a | Write a detailed note on plagiarism   | 7    |
|     | b | List and explain the different steps involved in a research process                   | 7    |
|     |   | OR  |      |

| Q-3        |        |    | Attempt an questions  | (14)      |
|------------|--------|----|---|-----------|
|            | a      |    | Explain the good qualities needed for publishing a research on large scale                          | 7         |
|            | b      |    | How do we use library & electronic databases for problem formulation?                               | 7         |
|            |        |    | SECTION – II  |           |
| Q-4        |        |    | Attempt the Following questions   | (07)      |
|            |        | a. | What is Research Methodology?   | 1         |
|            |        | b. | Define Review Process   | 1         |
|            |        | c. | Define Reproducibility  | 1         |
|            |        | d. | What is Analytical Research?  | 1         |
|            |        | e. | Define primary data collection.   | 1         |
|            |        | f. | Define Accuracy.  | 1         |
|            |        | g. | What is Reliability?  | 1         |
| Q-5        |        |    | Attempt all questions   | (14)      |
|            | a      |    | Describe the techniques of defining a research problem  | 7         |
|            | b      |    | Differentiate between list of References and Bibliography   | 7         |
|            |        |    | OR  |           |
| Q-5        |        |    | Attempt all questions   | (14)      |
|            | a      |    | Explain some important research designs used in experimental hypothesis-testing                     | 7         |
|            |        |    | research study  |           |
|            | b      |    | Describe the different types of research.   | 7         |
| Q-6        |        |    | Attempt all questions   | (14)      |
| Q-0        | 0      |    | Explain the various steps to write a Research Proposal.   | (14)<br>7 |
|            | a<br>b |    | Explain the various steps to write a Research Floposal.  Explain in detail 'Objectives of Research' | 7         |
|            | D      |    | Explain in detail Objectives of Research  | ,         |
|            |        |    | OR  |           |
| <b>Q-6</b> |        |    | Attempt all Questions   | (14)      |
|            | a      |    | Describe Copy rights and copy left in detail.   | 7         |
|            | b      |    | Explain Quality indices of research publication   | 7         |

