

GUJARAT TECHNOLOGICAL UNIVERSITY**M. Pharmacy Sem-II Examination July 2010****Subject code: 920001****Subject Name: Research Methodology****Date: 03 /07 /2010****Time: 11.00 am – 02.00 pm****Instructions:****Total Marks: 80**

- 1. Attempt any five questions.**
- 2. Make suitable assumptions wherever necessary.**
- 3. Figures to the right indicate full marks.**

- Q.1** (a) What is mean by Research? What are the objectives behind it? Discuss in detail about different types of research with suitable examples and its significance **10**
- (b) Discuss in brief about the path of research. **06**
- Q.2** Give detail account on literature search and hypothesis generation in research. **16**
- Q.3** (a) What are the points to be consider for effective paper and thesis writing ? Give brief account on each. **10**
- (b) “Documentation is very important part of research” How? Discuss about different techniques and recent advances in documentation. **06**
- Q.4** (a) Write a brief note on different types of analysis of data pointing out the significance of each in research. **10**
- (b) What do you mean by the additive property of the technique of the analysis of variance ? Explain how the technique is superior in comparison to sampling. **06**
- Q.5** (a) ‘Interpretation is fundamental component of research’ -Explain **06**
- (b) Explain the techniques and importance of oral presentation of research findings. Is only oral presentation sufficient ? If not, why? **10**
- Q. 6** Write a note on following
- (a) Importance of Industrial-Institution interaction in Research **06**
- (b) Discriminant Analysis **05**
- (c) Research Design **05**
- Q.7** A group of researchers has discovered a new chemical entity as an anti-inflammatory agent. They wish to convert this drug candidate in drug. Guide them for further systematic and fruitful research. Make all possible assumptions. **16**
