

Seat No.:-----

Enrolment No.:-----

UKA TARSADIA UNIVERSITY

Maliba Pharmacy College

M. Pharm 2nd Semester Internal Examination April 2014 (*Mid-Sem*)

040040201/50201/60201/30201 – Research Methodology, Experimental Design and Patent

Time: 1:30 pm to 4:30 p.m.

Max. Marks: **70**

Date: 05/04/2014

Instructions:

- Attempt any **FIVE** questions.
- Each question carries **14** marks.
- Make suitable assumption whenever necessary.
- Figures to the right indicate full marks.

- Q.1 A) What are complete specifications? Explain their content. 5
- B) Write a brief note on trademarks. 5
- C) What is PCT? Write the procedure for filing of patents through PCT. 4
- Q.2 A) Describe the history of Patent act in India. Mention the different amendments to the patent act 1970. 5
- B) Discuss the powers of Controller General. 5
- C) What is copyright? Discuss the various rights obtained through copyright. 4
- Q.3 A) Define: Patent, Geographical indication, Claims, infringement, Intellectual property, Compulsory license 5
- B) Explain the meaning of research and discuss the objectives of research. 5
- C) Discuss the criteria for a good research. 4
- Q.4 A) Draw a well labeled flow chart of research process and explain each step in brief. 5
- B) Discuss various types of research with proper examples. 5
- C) Explain the purpose and use of literature review in research. 4
- Q.5 A) Write a detailed note on preparation and presentation of literature reviews. 5
- B) Explain various techniques involved in identifying the research problem. 5
- C) Identify the type of data: 4
- Temperature (degree Celsius)
 - Standardized exam score
 - Product satisfaction
 - Age in years
 - Cost of laptop
- Q.6 A) Explain the terms: Simple correlation, Multiple correlations, Partial correlation. 5

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| B) | Distinguish between correlation and regression. | 5 |
| C) | Discuss interpretation of R and R^2 and define experimental design. | 4 |
| Q.7 A) | Explain basic principles of an experiment. | 5 |
| B) | Describe statistical dispersion with reference to shape of data plot. | 5 |
| C) | Explain briefly: Coefficient of variation, Z score | 4 |