

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

M. Pharm. – SEMESTER – III • EXAMINATION – WINTER • 2014

Subject Code: 930001

Date: 04-12-2014

Subject Name: Experimental Design and Patents

Time: 10:30 am - 01:30 pm

Total Marks: 80

Instructions:

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

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|-------------|--|-----------|
| Q.1 | (a) Define IPR. Enumerate it. Explain Paris Convention. | 06 |
| | (b) Write a brief note about patent co-operation Treaty (PCT) | 05 |
| | (c) Explain Types of Patent Application. | 05 |
| Q.2 | (a) Give brief discussion about term WIPO, TRIPS agreement, Doha declaration and GATT. | 06 |
| | (b) Enlist inventions which are not patentable under the Indian patent act 1970. | 05 |
| | (c) What are the distinct features of Amendment 2005 in Indian Patent act 1970? | 05 |
| Q.3 | (a) “Recently supreme court of India reject Novartis’s appeal regarding its brand Gleevec (Imetinib Mesylate)” Write an abstract about this issue & its judgment. | 06 |
| | (b) Discuss infringement. Explain different types of infringement. | 05 |
| | (c) Explain in brief about Patent claim. Classify Patent claim types. | 05 |
| Q.4 | (a) Give a flowchart for Indian patent filling procedure and patent filling procedure under PCT . | 06 |
| | (b) Enlist different Documents required for filing patent application in India. | 05 |
| | (c) Discuss guidelines for preparation of laboratory notebook and its importance in Patent protection. | 05 |
| Q.5 | (a) Explain features and applications of central composite designs. | 06 |
| | (b) What do you understand by full model & reduced model as per experimental design? Explain with Example | 05 |
| | (c) Explain:- (1) Interaction (2) Levels (3) Qualitative and quantitative factors | 05 |
| Q. 6 | (a) Discuss importance of experimental designs in clinical trials. | 06 |
| | (b) Give importance and types of (1) contour plots and (2) Response surface plots. | 05 |
| | (c) Explain Plackett- Burman experimental design with suitable example. | 05 |
| Q.7 | (a) Differentiate one way ANOVA and two way ANOVA. | 06 |
| | (b) Discuss significance of ANOVA in factorial design. | 05 |
| | (c) Clarify in brief about optimization by Grid search method. | 05 |
