

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
M.Ph Semester–III Examination Dec. - 2011

Subject code: 930001

Date: 07/12/2011

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) Discuss in detail copyright and trademark. | 06 |
| | (b) What is infringement? Discuss in detail different types of infringement. | 05 |
| | (c) Give brief account on guidelines for preparation of laboratory notebook. | 05 |
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| Q.2 | (a) Explain with examples, inventions which are not patentable. | 06 |
| | (b) List and discuss websites which provide information on patent. | 05 |
| | (c) How a researcher will draft a patent claim on his research. | 05 |
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| Q.3 | (a) Define and classify ANOVA and explain one way ANOVA. | 06 |
| | (b) Discuss about contour plot and explain it by giving suitable example. | 05 |
| | (c) Write an essay on Response Surface Methodology. | 05 |
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| Q.4 | (a) What are distinctions between process and product protection? | 06 |
| | (b) Enlist and describe essential elements of patents. | 05 |
| | (c) Discuss recent patents on drug delivery systems. | 05 |
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| Q.5 | (a) Differentiate one way ANOVA and two way ANOVA. | 06 |
| | (b) Classify factorial design and explain Box-benhken design. | 05 |
| | (c) Define and classify experimental design. | 05 |
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| Q. 6 | (a) Define patent and write its types. | 06 |
| | (b) Give note on The Patent Rule 2003. | 05 |
| | (c) Write brief note on patent oriented research. | 05 |
| | | |
| Q.7 | (a) Enlist and explain application of experimental designs for Pharmacoinformatics. | 06 |
| | (b) Give brief explanation on Central Composite Design. | 05 |
| | (c) Explain Plackett-Burman design in experimental design. | 05 |
