

HV-02011242

Seat No.

M. Pharm. (Sem. III) (CBCS) Examination June / July - 2017

Patent, Design of Experiment & Biostatistics

(Interdisciplinary : Paper - VI)

Time: 3 Hours] [Total Marks: 80

Instructions: (1) Answer and tie up both the sections separately.

- (2) Figures to the right indicates marks.
- (3) Answer any three (03) questions from each section.
- (4) Question one (1) and questions five (5) are compulsory.
- (5) Draw neat and clean diagrams as required.

SECTION - I

- 1 Answer any seven questions out of eight: $7\times2=14$
 - (1) What is the prior art?
 - (2) What is patent infringement? Who has to take care of patent infringement?
 - (3) What is the preamble of GATT?
 - (4) Differentiate product patent and process patent.
 - (5) Briefly describe: impact of product patent in India.
 - (6) Explain the term: TRIPS
 - (7) Enlist different types of intellectual properties with example.
 - (8) Define: statistics
- **2** Answer the following:
 - (a) Describe the role of Paris convention.

7

(b) Write a note on WIPO.

6

- **3** Answer the following :
 - (a) Distinguish between US patent system V/S EU patent 7 system.

	(b)	Describe in detail parts of patent applications with their importance.	6
4	Answer the following:		
	(a)	Explain the guideline for patent application relating	7
		to pharmaceutical invention.	
	(b)	Write a note on: Patent Cooperation Treaty and	6
		explain its functions.	
		SECTION - II	
5	Answer Any TWO (2) questions from the following: $2 \times 7 = 1$		14
	(1)	What is Null hypothesis? Explain its importance.	
	(2)	What is regression analysis? How it is useful in	
		pharmaceutical research?	
	(3)	What are the pros and cons of factorial design?	
6	Answer the following:		
	(a)	Write a short note on: Response surface methodology.	7
	(b)	Explain terms:	6
		(i) Factors	
		(ii) Levels	
		(iii) Effects	
7	Answer the following:		
	(a)	Classify factorial design and explain Box- Benhken	
		design.	
	(b)	Write short note on "fractional factorial design".	
8	Answer the following:		
	(a)	Write a short note on: ANOVA	6
	(b)	Write a short note on: t - Test & Chi-square	7