Sample Paper - Entrance Test for Admission to Doctor of Philosophy

Discipline: Pharmacy

Max Time: 3 Hours

Total Marks: 100

There are two sections each of 50 Marks

	Section 1: Descriptive Questions (Pharmacy)	Marks
1.	a) What is NDDS? Explain in detail its applications in Pharmacy.	**[15]**
	OR	
	b) What is Nanotechnology? How is it changing the present and future of Pharmaceutical field?	**[15]**
2.	a) What is the meaning of Cosmeceuticals? Explain the standard formulations based on Cosmeceuticals with examples.	**[15]**
	OR	**[15]**
	b) Discuss in detail the applications of Herbals in Cosmeceuticals.	
3.	a) What is the meaning of Nutraceuticals? Explain in detail the current scenario of Nutraceuticals in Industry.	**[10]**
	OR	**[10]**
	b) What is the meaning of Herbal Technology? Explain it with suitable examples.	
4.	a) What are the Solid unit dosage forms manufactured in Pharmaceutical industry? Give a detailed account on any one of them.	**[10]**
	OR	**[10]**
	b) What are the different types of Pharmaceutical Excipients utilized in the formulation of dosage form? Explain in detail.	

Section 2: Descriptive Questions (Research Methodology)		Marks
5.	a) What is Patent? Discuss the criteria for patents and patent infringement.	**[15]**
	OR	
	b) What is Plagiarism in Research and discuss its tools. Explain its importance in Research.	**[15]**
6.	a) Give a brief note on the limitation and berries encountered by the potential Researcher in India.	**[10]**
	OR	**[10]**
	b) What is Research Ethics? Explain in detail the thrust areas of research in next decade with reference to India.	
7.	a) Discuss the importance of Review of Literature in Research. Explain Referencing/Bibliographic methods in detail.	**[15]**
	OR	**[15]**
	b) What is Research? Discuss the application of Research in Pharma Domain.	
8.	a) Enlist the various statistical parameters used in Pharmaceutical Research. Explain any one in detail.	**[10]**
	OR	**[10]**
	b) What is Biostatistics? Explain its significance and application in pharmaceutical Research.	