3.3.2 Number of Books and Chapters in edited volumes/ books published,and Papers in National/International conference-proceeding per Teacher during last five years							
Sr.No	**Name of Teacher**	**Title of book/Chapter published**	**Title of Paper**	**Year of Publications**	**ISBN/ISSN number**	**Weather at the time of publication affiliating institute was same (yes/ No)**	**Name of Publisher**
1.	Dr. Sanjay kumar, Dr. Chanderpal singh Verma	Textbook of Pharmacognosy-I	Textbook of Pharmacognosy-I	2022		yes	Integrated Publications
2.	Mr. Shiv kumar kushawaha, Dr. M S Ashawat	Human Anatomy and Physiology	Human Anatomy and Physiology	2022	978-9382073-91-8	Yes	Balaji publications
3.	Mr. Tarun Kumar, Ms Shavinder kumari,Mrs. Archana Choudhary	Textbook of Pharmaceutical Microbiology	Textbook of Pharmaceutical Microbiology	2022	978-93-92153-55-6	Yes	South Asian Academic Publications
4.	Dr.Vinay Pandit	Pharmaceutics	Pharmaceutics	2021	978-93-5451-392-3	Yes	Nirali Prakashan
5.	Dr. Shammy Jindal, Kamya Goyal	COVID-19: Diagnosis and Management-I	COVID-19: Epidemiology	2021	978-1-68108-808-2	Yes	Bentham Science Publisher
6.	Dr.Vinay Pandit, Dr.M S Ashawat	Formulation and Evaluation of Fast Dissolving Film of Chlorpromazine	Formulation and Evaluation of Fast Dissolving Film of Chlorpromazine	2020	6202524200	Yes	LAP Lambert Academic Publishing
7.	Dr.Vinay Pandit, Dr.M S Ashawat	Formulation and Evaluation of Fast Dissolving Tablet of Clopidogrel: Fast Dissolving Tablets	Formulation and Evaluation of Fast Dissolving Tablet of Clopidogrel: Fast Dissolving Tablets	2020	978-6200535078	Yes	LAP Lambert Academic Publishing
8.	Dr. Vinay Pandit, Prof.CPS Verma	Mucoadhesive system for Drotaverine Hydrochloride: A Novel approach	Mucoadhesive system for Drotaverine Hydrochloride: A Novel approach	2020	978-620-2-52302-8	Yes	LAP Lambert Academic Publishing
9.	Dr.Shammy jindal kamya Goyal	Nanomedicine for Bioactives	Lipid Nanocarriers for Dermal Delivery of Lutein	2020	978-981-15-1664-1	Yes	Springer, Singapore
10	Priyanka Chouhan, Dr. M S Ashawat	Designing and Characterization of Photoprotective Formulations	Designing and Characterization of Photoprotective Formulations	2018	978-613-98-7074-5	Yes	LAP Lambert Academic Publishing

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Pharmacognosy - I

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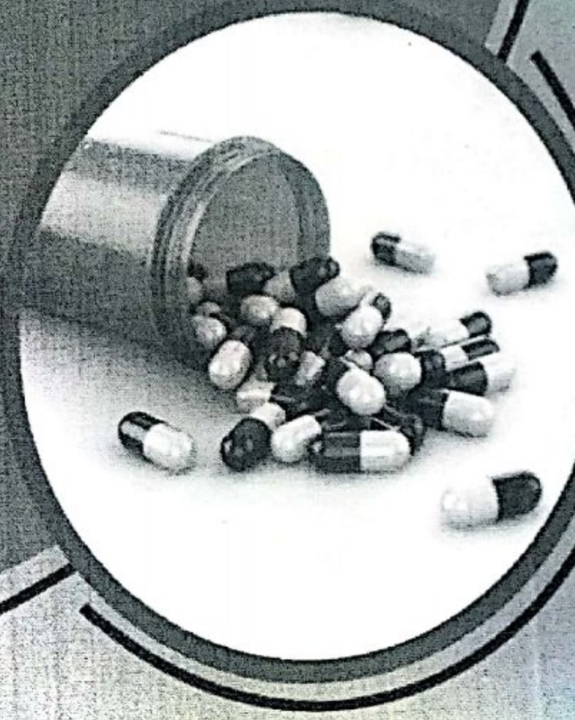

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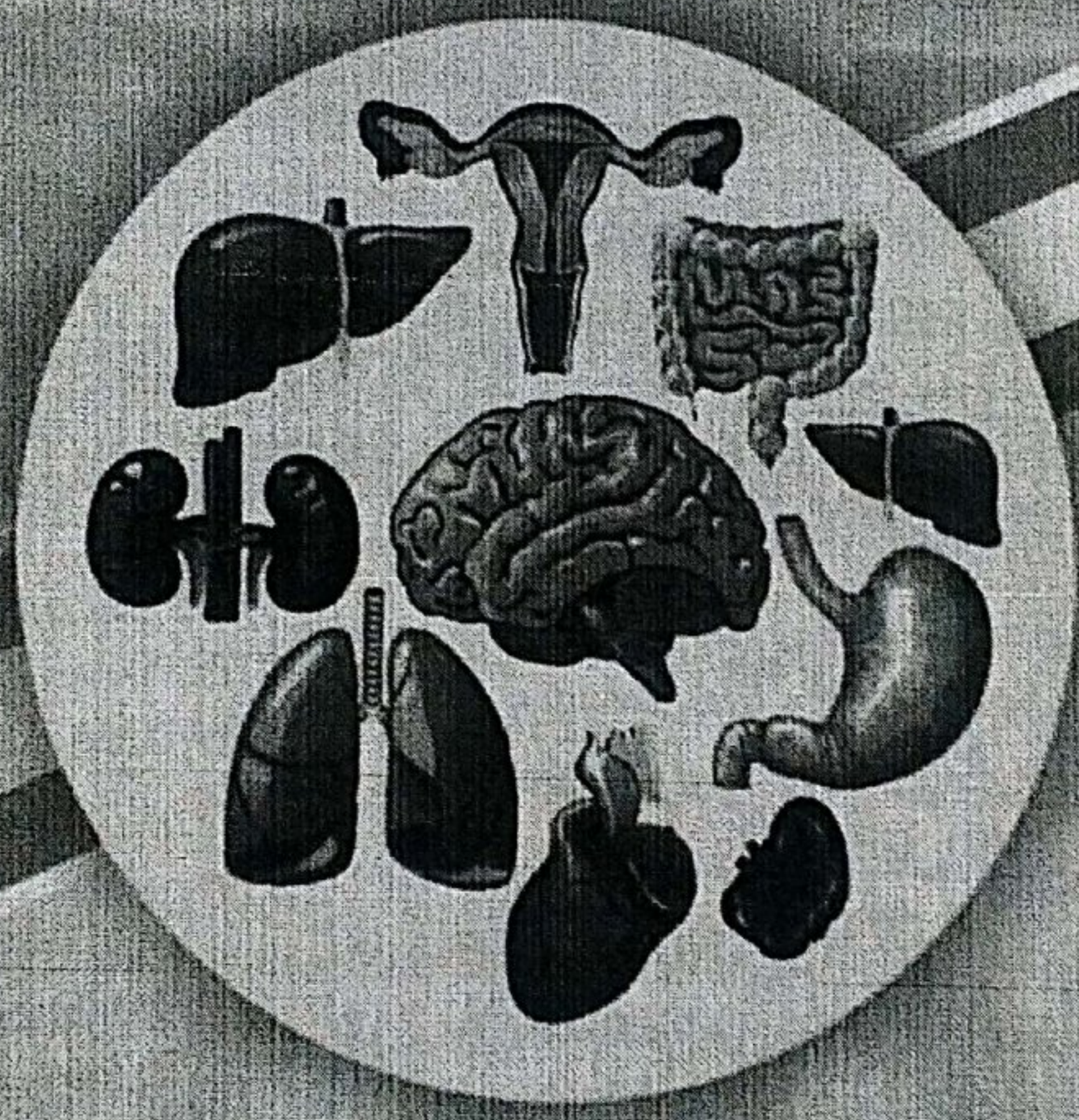

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CHAPTER 3

COVID-19: Epidemiology

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Abstract: In the history, the year 2019 will be remembered as the year that has witnessed the beginning of a pandemic, primarily affecting the respiratory tract and then, spreading from human to human. A total of 25.18 million reported cases and 0.84 million deaths, as of 30th August 2020, and still counting, were caused by a novel coronavirus named COVID-19 that originated in Wuhan, China. By the beginning of the year 2020, this virus spread to several countries like Singapore, South Korea, Japan, Italy, Spain, Germany, the United Kingdom, and the United States of America. Between January 2020 and March 2020, the disease took a paradigm shift and started to affect the majority of European countries like Italy, Spain, France, Germany and UK. In the majority of the patients with a competent immune system, this disease goes unnoticed or without symptoms, thus making them highly susceptible to spread this disease to whoever comes in their contact. Aged patients (>60 years) or patients with chronic health issues like heart diseases, cancer, diabetes, and weak immunity are at greater risk of developing the symptoms. In severe conditions, patients need hospitalization and respiratory support (respirators/ventilators), thus causing an overload on the health system of the world. This initiated the movement of "flattening the curve" by social distancing and isolation to decrease the burden on the health system and to decrease the spread of the disease.

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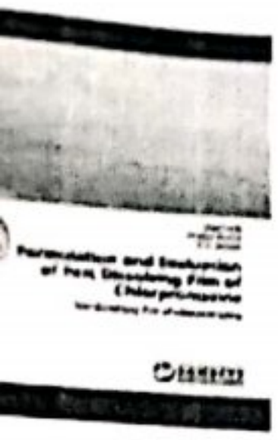

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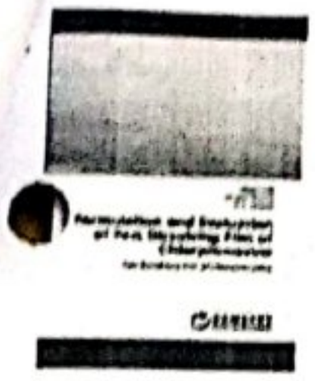

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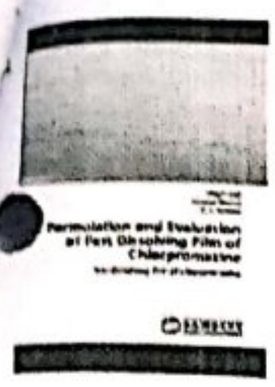

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Emesis is the involuntary and forceful expulsion of the contents of one's stomach through the mouth and sometimes the nose. Receptors on the floor of the ventricle of the brain represent a chemo-receptor trigger zone,

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for a sublingual film. The optimized films formed were subjected to evaluation parameters viz. Tensile Strength, Disintegration, In-vitro dissolution, Ex-vivo Permeation studies and In-vivo studies and the results complied with the available statistical data. In-vitro dissolution studies were analyzed and Higuchi model was found to be the best fit model for In-vitro dissolution studies with a regression value of 0.9248. Ex-vivo permeation studies showed fivefold enhanced permeation of drug from films as compared to pure drug. In conclusion, a sublingual film of Chlorpromazine HCl may result in better patient compliance, quick onset of action and enhanced bio-availability.

Dr. Vinay Pandit is working as a Professor and Head, Department of Pharmaceutics, Laureate Institute of Pharmacy. His current area of research is a Novel drug delivery system and fast dissolving technology. He has a number of publications in reputed national and international journals.

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by three different methods viz., Direct compression method, Solid dispersion method and Sublimation method. Different excipients such as, crospovidone as super disintegrants, croscarmellose as superdisintegrant, magnesium stearate as lubricant, talc as glidant etc. were used. Based on in-vitro release studies tablets prepared by sublimation method clopidogrel was selected as optimizes formulation. In-vitro release studies indicated more than 95% release of drug in 30 mins. The accurate stability studies indicated no change in in-vitro release and other property of the tablet. Thus sublimation method can be a promising strategy in enhancing the solubility and dissolution studies of clopidogrel bisulphate.

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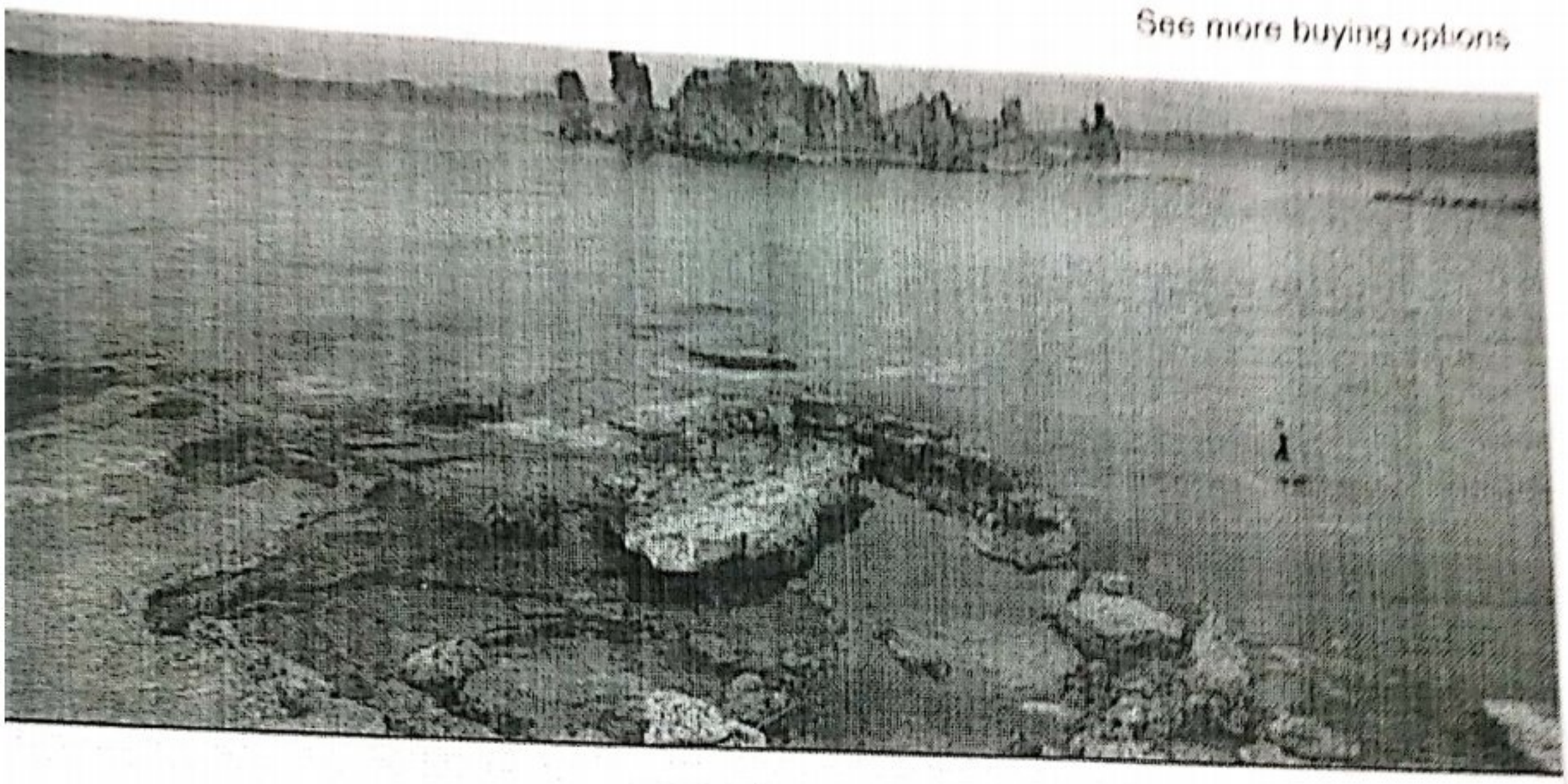

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ulnes was obtained for kneaded product. DSC, FTIR and PXRD studies indicated that complexes can be formed by kneading method. The use of such drug-CD binary systems prepared by kneading method enabled preparation of directly compressible buccal tablets which showed better Diffusion cell studies and dissolution values compared to marketed formulation and tablets containing drug alone. Thus, it can be concluded that the kneading method can be used to prepare DH-MβCD complexes, to enhance the solubility and dissolution profile of drug which can be further enhanced by converting the complexes into a buccal formulation. The prepared formulation can be further investigated for its in vivo behaviour.

Dr Vinay Pandit, Professor and Head, Dept of Pharmaceutics, Laureate Institute of Pharmacy, is an active researcher and working on novel drug delivery systems. He has a number of international and national publications. His current area of research includes Buccal and Nasal drug delivery systems. He has fetched a number of grants for his research.

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Lipid Nanocarriers for Dermal Delivery of Lutein

Shammy Jindal, Avichal Kumar, Kamya Goyal, Rajendra Awasthi, and Giriraj T. Kulkarni

1 Introduction

Lutein (β, ε-carotene-3, 3′-diol) is a naturally occurring carotenoid. It is a lipid-soluble pigment present in vegetables such as spinach and kale. It is an oxygenated derivative of carotenoids known as xanthophylls. It is a yellow pigment present in the macular region of the eye retina. This carotenoid is not produced in the human body; it is obtained from food sources. Out of 20 different antioxidants, xanthophyll is the major antioxidant found in soma [1]. Oral bioavailability of lutein is about 10–15%. Acceptable daily intake of carotenoid is 2 mg/kg weight (equivalent to 220 mg/day for a 60-kg person).

Zeaxanthin is the most common carotenoid alcohol found in nature associated with xanthophyll cycle. It is present in high concentrations within the macular area of the human eye. It protects the macula from blue light. It improves visual acuity known for its importance for up vision [2]. Oxidation of the lens is a major cause of cataracts. Zeaxanthin and lutein are the most common antioxidants present in the eye, which nutrients neutralize free radicals. Thus, it reduces the risk of chronic eye disorders, including cataracts and age-related macular degeneration.

Human skin also contains lutein and carotenoids. The skin needs antioxidants to protect it by reducing and counteracting free radical production [3]. Xanthophyll plays an important role in developing and maintaining a healthy skin cell layer by inhibiting the UV radiations from sunlight. It reduces the cell damage and hence

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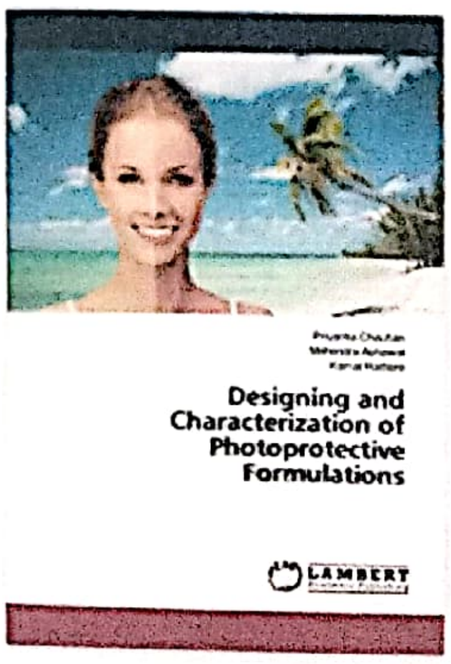

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