2. (a) Attempt any Two of the following

(i) How is U.V. Spectroscopy useful for analysis of drugs?

(ii) What are limit tests? Discuss in detail limit test for Iron.

(iii) What are proximate assays? Discuss its applications with examples.

(iv) Give the significance of long term and short term stability studies of drugs.

(b) Describe plate diffusion method for anti microbial testing of pharmaceutical product.

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(b) What is bio-availability? Explain the need of determination of bio-availability of drugs.

3. (a) Attempt any Two of the following

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(i) Describe method for determination of cyanide in stomach wash.

(ii) What are CNS depressants? How are barbiturates isolated, identified and estimated in forensic samples?

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	(iii)	How are metabolites of drugs determined from blood and urine samples?	
	(iv)	How are saliva and semen analysed from samples in forensic laboratories?	
	(b)	Explain the role of Analytical chemistry in forensic science  OR	4
	(b)	What are hallucinogens? How is LSD identified and estimated from the given sample?	4
١.	(a) Atte	mpt any Two of the following	8
	(i)	Give the method of estimation of hexachlorophene from deodorants.	
	(ii) (iii)	What are cosmetics? What properties should they possess? How is I.R. Spectroscopy useful in analysis of non-volatile matter of creams and lotions?	
	(iv)	Give the components of face powder. How is Barium estimated from face powder?	
:	(b)	How is resorcinol analysed from hair tonic?  OR	4
	(b)	Explain the method for determination of ash content in lipstick.	4
•	(a) Atter (i) (ii)	mpt any four of the following  How are the impurities introduced in drugs during storage?  What are various dosage forms of drugs? Explain with reference to	12
	(iii)	liquid and semi-solid forms.  Define disintegration. Describe different methods for disintegration studies of pharmaceutical products.	
	(iv)	What are commonly found acid radical impurities? Describe the limit test for any one of it.	
	(vi)	How is amphetamine estimated?  How are pesticides determined in post-mortem samples?  Distinguish between deodorants and antiperspirants.	
		Describe the method for estimation of glycerol in vanishing cream.	