(2 1/2 Hours)

[Total Marks: 60

	- (1)	All questions are compulsory.		
(2) Use of log table or nonprogrammable calculator is permitted.				
	(2)	Ose of log table of non-programment of the same		
		Cale Callerying	8	
$\mathbf{Q}.1$	(a)	Attempt any two of the following		
		(i) Describe the following		
		(1) Vitamins (2) Sustained release formulations		
		(ii) Discuss semi-solid and liquid dosage forms of a drug.		
•		(iii) How are the impurities introduced in pharmaceutical preparations		
		-C		
		(iv) What are the official methods which are used to control the quality of		
		pharmaceutical preparations?		
		pharmaceutical	4	
	(b)	Discuss in brief the criteria for selection of excipients added during pharmaceutical		
	(0)	preparations.		
		OR	4	
	(b)	Explain with examples, the following routes of drug administration:		
		(1) Topical (ii) Rectal		
			8	
Q.2	(a)	Attempt any two of the following		
		(i) Explain the use of GLC in the analysis of volatile impurities & residual		
		advante		
		the dilution method used for analysis of vitamins.		
		(ii) Discuss the tibe dilution include used for the control with a suitable (iii) What is the need of carrying out disintegration test of a tablet? With a suitable		
		(iii) What is the need of carrying out distribution vitro		
		diagram, describe how the test is carried out in vitro.	•	
		diagram, describe now the test is carried out in diagram, describe now the test is carried out in the diagram, describe now the test is carried out in the diagram, describe now the test is carried out in the diagram, describe now the test is carried out in the diagram, describe now the test is carried out in the diagram, describe now the test is carried out in the diagram, describe now the test is carried out in the diagram, describe now the test is carried out in the diagram, describe now the test is carried out in the diagram, describe now the test is carried out in the diagram, describe now the test is carried out in the diagram, describe now the test is carried out in the diagram, describe now the test is carried out in the diagram, describe now the test is carried out in the diagram.		
		A COMPANY STATISTICS OF A CICUR.	1	
	(b)	'higgrailability' of a drug, How is bloavariability of a drug,	7	
	(U)	determined?		
		AD .		
	٠. ١	introduced in drug? Describe the limit test for	4	
	(p)	How are metallic impurites introduced to the design in the		
		identification of metallic impurity like non-in-purity		
		C.A. C. Hawing	8	
Q.3	(a)	Attempt any two of the following: (i) Discuss method of isolation, identification & determination of cocaine from		
_		(i) Discuss method of isolation, identification to assess		
	9	biological fluids.		
		(ii) How are metabolites of drugs determined in urine samples of addices		
		(iii) What are the CNS depressants? Explain with examples.		
		(111) What are the CNS depression of seminal stains.		
	2	(iv) Describe electrophoretic method for determination of seminal stains.		
	/k.\	What is forensic science? Describe its interdisciplinary nature.	4	
	(p)	OR.		
	,		4	
	(b)	How are instecticides determined in post mortem sample of blood?		
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Q.4		Attempt any two of the following: (i) How are total oxides of Al and Fe estimated from face powder? (ii) Describe how salicylic acid & resorcinol are estimated from hair lotions. (iii) Give the methods for determination of chloride & sulphate from deodorants. (iv) What are the constituents of lipsticks? How are the colours from the lipsticks estimated? How is propylene glycol content in cosmetics determined? State importance of			
	(b)	How is propylene glycol content in cosmetics determined.			
	X-	propylene glycol in cosmetics.			
		OR			
	(p)	Discuss how non-volatile matter in creams & lotions is determined?			
Q.5	Attempt any four of the following: (a) Explain the important aspects which should be considered while controlling				
	(a	Explain the important aspects which should be a second to the should b			
		the quality of creams used in pharmaceutical industry.			
	(t	the quality of creams used in pharmacounter and of a drug by various routes on the Explain the effect of rate and absorption of a drug by various routes on the			
	(0	drug action. Discuss the advantages & disadvantages of parenteral route of drug administration.			
	(d	1) Explain the need of carrying out stability studies of a pharmaceutical property			
	. (e	Transis associated and identified from Diological Itulus			
	(f	the state of blood ctains in case of blocks.			
		Distinguish between deodorants and antiperspirants.			
	(1	h) How is water from cosmetics estimated?			
	(1	II) TIOM D MOTOR			

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