Time: 2½ Hours	Total Marks: 60
<b>N.B.</b> 1) All questions are compulsory.	¥ 4 9 5 8 6 0 0 0 8 4 5 7
2) Figures to the right indicate maximum marks	
<b>Q. 1 A)</b> Attempt any <b>two</b> of the following:	
i) Discuss the classification of drugs based on their therapeutic action.	2.5.2.4.8.2.4.8.2.4
ii) Explain with examples different types of excipients present in the table	ets.
iii) What are various sources of impurities in pharmaceutical products?	
iv) Explain dosage form of drugs. Compare between solid and liquid dos	age forms.
<b>B</b> ) Give the methods which are commonly used for testing quality of finite	shed product. (4)
OR STATE	
<b>B</b> ) Explain the importance of FDA in pharmaceutical industries	(4)
Q. 2 A) Attempt any two of the following:	(8)
i) Explain the use of UV spectroscopy in the analysis of drugs.	
ii) Discuss the pharmacokinetic parameters used to determine bioavailabi	lity of a drug
iii) Describe the limit tests carried out to identify any two acid radical im	
iv) Explain the plate diffusion method used for testing the antimicrobial a	
products.	etryity of pharmaceutical
<b>B</b> ) What is stability of drug? Explain the importance of its study.	(4)
B) What are proximate assays? Discuss the types of ash values carried of	out in analysis of crude
drugs.	(4)
Q.3A) Attempt any two of the following:	(8)
i) Discuss the role of Analytical Chemistry in forensic science.	
ii) Describe the test for detecting the presence of blood stains in forensic	samples
iii) How is arsenic from stomach wash detected?	sampres.
iv) Explain the following terms with two examples of each: Narcotics, St	imulants.
<b>B)</b> Describe the method for determination of pesticides in post mortem sa	amples. (4)
	( )
B) Explain the detection of LSD and cannabis.	(4)
Q.4 A) Attempt any two of the following:	(8)
i) Distinguish between deodorants and antiperspirants.	(=)
ii) How are cosmetic materials evaluated?	
iii) Describe the method for the determination of water content in cosme	tics
iv) Explain the process of estimation of nonvolatile matter in creams and	
spectroscopy.	
<b>B)</b> How will you determine acetone soluble component in lipstick?	(4)
OR	
<b>B)</b> List the components of hair tonic. Describe a method for determination in hair tonic.	on of resorcinol (4)

62417 Page 1 of 2

**Q.5** Attempt any **four** of the following:

(i) Explain what is meant by misbranded drug and spurious drug.

(12)

- (ii) What are the official methods of quality control?
- (iii) How is HPLC applied in analysis of pharmaceutical formulations?
- (iv) Write a note on impurity profiling.
- (v) What is analytical toxicology? Give its significance.
- (vi) How is amphetamine estimated?
- (vii) What are cosmetics? Discuss the various properties of cosmetics.
- (viii)Discuss the method used for the estimation of titanium in face powder.

\_\_\_\_\_\_

62417 Page 2 of 2