

TECHNICAL UNIVERSITY OF MOMBASA

FACULTY OF APPLIED AND HEALTH SCIENCES

DEPARTMENT OF PURE AND APPLIED SCIENCES

UNIVERSITY EXAMINATION FOR:

BACHELOR OF TECHNOLOGY IN APPLIED CHEMISTRY (INDUSTRIAL OPTION)

BTAC 12S SEPT 2012

ACH 4405

Industrial Pharmaceutics

END OF SEMESTER EXAMINATION

SERIES:MAY 2016

TIME:2 HOURS

DATE:

Instructions to Candidates

You should have the following for this examination

-Answer Booklet, examination pass and student ID

This paper consists of FIVE questions. Attempt Question one compulsory and any other two question

Do not write on the question paper.

Paper Two

4 marks

QUES	TION	ONE	
A.	Differ		
	i.	Emulsion and suspension	4 marks
	ii.	hard and soft capsules	4
		marks	
B.	Defin	e mechanism of wetting agents	3
	mark	S	
C.	Outline different reason for coating tablets		4
	mark	S	
D.	Expla	in autoclave process as a Sterilization method	4
	mark	- S	

F. Outline different Mode of Action of preservatives as used in phermaceuticals 3 marks

E. Explain briefly how you will determine intergranule bond strength in tablet

G. Differentiate between:-	2
 i. flocculated and deflocculated suspension marks 	2
ii. Rheopectic and Thixotropic fluid	2
marks	
QUESTION TWO	
A. State Characteristic of potential flow	5 marks
B. Explain briefly Sterilization by filterationC. Describe te working principle of Capillary Viscometer	5 marks 5 marks
D. Explain briefly how you will determine rate of tablet friability	5 Marks
QUESTION THREE	
A. Define (i)Effervescent tablet (ii) Colloids	4 Marks
B. State advantage of moist granulation over dry granulation	4 marks
C. Define different Mechanism of size reduction	3 marks
D. Differentiate between the various types of ointment basesE. State pharmaceutical importance of Agitation	5 Marks 4 marks
E. State pharmaceutical importance of Agitation	7 marks
QUESTION FOUR	
A. Discuss	
i. Stability of Emulsion	4 marks
ii. Different factors which affect Penetration of liquid in tablets	4 marks
B. Define GarglesC. List the Advantages of Hard Gelatin Capsules	2 marks 6 marks
D. State different properties suspension	4 marks
QUESTION FIVE	
	Stabilizers 6 Marks
A. Differentiate between Surfactant and Hydrophilic colloids as EmulsionB. state Importance of size reduction	Stabilizers 6 Marks 4
 A. Differentiate between Surfactant and Hydrophilic colloids as Emulsion B. state Importance of size reduction marks 	
 A. Differentiate between Surfactant and Hydrophilic colloids as Emulsion B. state Importance of size reduction marks C. Define 	4
 A. Differentiate between Surfactant and Hydrophilic colloids as Emulsion B. state Importance of size reduction marks 	
 A. Differentiate between Surfactant and Hydrophilic colloids as Emulsion B. state Importance of size reduction marks C. Define i. Parental preparations ii. Aerosols iii. different types of Otic Solutions 	4 2 marks 2 marks 2 marks
 A. Differentiate between Surfactant and Hydrophilic colloids as Emulsion B. state Importance of size reduction marks C. Define i. Parental preparations ii. Aerosols 	4 2 marks 2 marks