

# **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 **QUESTION ONE** A. Differentiate between :-4 marks i. Emulsion and suspension ii. hard and soft capsules 4 marks B. Define mechanism of wetting agents 3 marks C. Outline different reason for coating tablets 4 marks D. Explain autoclave process as a Sterilization method 4 marks E. Explain briefly how you will determine intergranule bond strength in tablet 4 marks F. Outline different Mode of Action of preservatives as used in phermaceuticals 3 marks

G. Diffe	erentiate between:-		
i.	flocculated and deflocculated suspension <b>marks</b>		2
ii.	Rheopectic and Thixotropic fluid marks		2
QUESTION			
A. State Characteristic of potential flow		5 marks	
B. Explain briefly Sterilization by filteration		5 marks	

- B. Explain briefly Sterilization by filterationC. Describe te working principle of Capillary ViscometerD. Explain briefly how you will determine rate of tablet friability 5 marks
- 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 bases	5 Marks
E.	State pharmaceutical importance of Agitation	4 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 Gargles	2 marks			
C. List the Advantages of Hard Gelatin Capsules	6 marks			
<b>D.</b> State different properties suspension	4 marks			

# **QUESTION FIVE**

А.	Differe	ntiate between Surfactant and Hydrophilic colloids as Emulsion Stabilizers	6 Marks
В.	state In	portance of size reduction	4
	marks		
C.	Define		
	i.	Parental preparations	2 marks
	ii.	Aerosols	2 marks
	iii.	different types of Otic Solutions	2 marks
Explain tyndallisation process		4	
MARK	S		