

## TECHNICAL UNIVERSITY OF MOMBASA

# FACULTY OF APPLIED AND HEALTH SCIENCES DEPARTMENT OF MEDICAL SCIENCES UNIVERSITY EXAMINATION FOR:

## DIPLOMA IN PHARMACEUTICAL TECHNOLOGY

APM2213: PHARMACOGNOSY II

END OF SEMESTER EXAMINATION

**SERIES:**APRIL2016

TIME:2HOURS

DATE: Pick Date Apr 2016

### **Instructions to Candidates**

You should have the following for this examination

-Answer Booklet, examination pass and student ID

This paper consists of **THREE**Section(s). AttemptAll questions in section A and B and any two questions in section C.

Circle the correct answer in section A.

#### Section A

1. A Cardiac glycoside with a six membered lactone ring is call
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a) Cardenolide

c) Hexanolide

b)Bufadienolide

d) Digitalis

- 2. Anthraquinone glycosides are mainly found in
- a) Leaf parenchyma of Aloe
- b) Dried leaf juice of Aloe
- c) Papaya latex
- d) Dried roots of Aloe
- 3. The right skeleton for atropine is
- a) Pyridine
- b) Indole
- c) Tropane
- d) Imidazole

4. Wh	ich of the fol	llowing is not a constit	uent of Opium?			
a) Mor	phine	b) Codeine	c) Cocaine	d) Papaverine		
5.RedS	Squill is					
a) Urg	iniaindica	b) Urginiamaritima	c) Eugenia cayophyllus (	d) none		
6. Allii	in and Alicin	is contained in.				
a) Garl	ic	b) Ginger	c) Turmeric	d) Clove		
<ul><li>a) Mol</li><li>b) Mol</li><li>c) May</li></ul>		d beaters	de			
	ch of the folk	lowing is not a use for b) Suspending ager	_	d) Binding agent		
	ers are used t malaria	herapeutically as b) Antifungals	c) Laxatives	d) Appetizers		
	ragulusgum gacanth	<i>mifer</i> is the source for b) Acacia	c) Gelatin	d) Starch		
11.	Which of th	ne following statements	s most accurately describ	es carbohydrates:-		
a.	A group of	compound composed of	of carbon, hydrogen and	oxygen		
b.	A group of compounds with sweet taste which are soluble in water.					
c.	Polyhdroxy aldehydes or polyhdroxy ketones or compounds that on hydrolysis produce either of the					
above.						
d.	None of the	above				
12.	Which of th	ne following is NOT a	constituent of honey:-			
a.	Glucose					
b.	Fructose					
c.	Sucrose					
d.	Mannose					

13. Which of the following describes the mechanism of laxative action exhibited by the husk of *Plantago* ovata:-Bulk laxative a. b. Stimulant laxative Osmotic laxative c. None of the above d. 14. Therapeutic activity in glycosides is exhibited by:-Aglycone portion a. b. Glycone portion Both c. d. None 15. Quinine is used in:-Treatment of severe malaria a. Treatment of genital warts b. Whooping cough c. Amoebiasis d. 16. Sennosids A and B are found in senna whose biological source can be described as:-Dried leaves of Cassia acutifolia a. Dried leaflets of Cassia angustifolia b. Flowers of Cassia acutifolia c. d. All of the above A cardiac glycoside containing a five membered lactone ring is referred to as:-17. Cardenolide a. Bufadienolide b. Cardenolidone c. Pseudo glycoside d.

18.	Which of the following is a chemical test for cardiac glycosides:-				
a.	Molisch's test				
b.	Born trager's test				
c.	Bromine test				
d.	Keller – killiani test				
19.	Which of the following does not have a carminative effect;-				
a.	Cardamom				
b.	Fennel				
c.	Coriander				
d.	Neem				
20.	Senna and Isapgol can be grouped together as:-				
a.	Carbohydrates				
b.	Glycoside				
c.	Bitter fonics				
d.	Laxatives				
21.	Which of the following is not a use for tragacanth:-				
a.	Emulsifying agent				
b.	Suspending agent				
c.	Binding agent				
d.	Laxative				
22.	Opium consists of theof Papaverasomniferum				
a.	Dried sclerotium				
b.	Gummy exudates				
c.	Dried bare				
d.	Dried latex				
•					
23.	Azaridachtaindica is known locally:-				
a.	Mitishamba				
b.	Mapera				

c.	Muarobaini			
d.	Muhamsini			
24.	Ergot is obtained from theof clvricepspurpurea:-			
a.	Leaf			
b.	Dried sclerotium			
c.	Ascopore			
d.	PhilamentonsLyphae			
25.	Clove can be used therapeutically as:-			
a.	Antimalarial			
b.	Dental analgessic			
c.	Anti-amoebic agent			
d.	Appetizing agent			
26.	The right skeleton for ergot is:-			
a.	Pyridine			
b.	Isoquinoline			
c.	Tropane			
d.	Indole			
27.	The following are chemical constants useful in the evaluation of fixed oils except:-			
a.	Haemolytic index			
b.	Acid value			
c.	Ester value			
d.	Iodine value			
28.	Which of the following vitamins is found in cod liver oil:-			
20. I.	Vitamin A			
II.	Vitamin D			
11.	riumini D			

III.	Vitamin E						
A.	I only						
B.	II only						
C.	I & II only						
D.	I, II & II						
29.	Identify the INCORRECT mater for alkaloid and its chemical classification:-						
a.	Tropane – Atropine						
b.	Indole – Ergometrine						
c.	Isoquinoline – Cinchonine						
d.	Alkylamine – Ephedrine						
30. Sil	ymarin is commercially derived from						
a) Acia	tostaphylosuva-ursi						
b) Sily	busmarianum						
c) Gal	idiumamansii						
d) Cla	vicepspurpurea						
31. Ch	noose the correct identification test for anthroquinones						
a) Fro	elide test						
b) Lie	b) Liebermann – Burchard test						
c) Borntragers test							
d) Muroxide test.							
32. W	hich of the following is not a use for Starch						
a) Disi	ntegrating agent b) Nutritive c) Emulsifier d) Binding agent						
33. Se	nnosidesare used therapeutically as						
a) Anti malaria b) Antifungals c) Laxatives d) Appetizers							

34. Which of the following does not contain volatile oil					
a) Euca	alyptus				
b) lano	lin				
c) Clov	е				
d) Cinn	aamon				
35. Which of the following techniques is not suitable for extraction of volatile oils					
a) Enfl	eurage				
b) Stea	m distillation				
c) Eque	elle e piqeur				
d) Infusion					
36.	Acacia is a:-				
a.	Gummy exudate				
b.	Dried extract				
C.	Dried juice				
d.	Dried latex				
37.	Chemical tests for alkaloids include:-				
a.	Molisch test and borntragers test				
b.	Molisch test and kellerkilani				
c.	Mayers test and Hagers test				
d.	None of the above				
38. Which of the following is not a use for Acacia:-					
a.	Emulsifying agent				
b.	Suspending agent				
C.	Binding agent				
d.	Laxative				

39. What is the use of podophyliotoxin							
a) Emetic	b) antimalarial	c) Treatment of Wa	rts				
d) Suspending	d) Suspending agent						
40.What is the	e use of Vincristin	ne					
a) Amoebiasis	b) antimalarial	c) Treatment of Wa	rts				
d) anticancer	d) anticancer						
Section B							
41. List five pharmaceutical uses of starch (4 marks)							
42. List fi	42. List five crude drugs containing volatile oil (4 marks)						
43. List c	43. List crude drugs containing Anthraquinone glycosides (4 marks)						
44. List fi	ve fixed oils used	in pharmacy. (4 mar	·ks)				
45. List ch	emical constituer	nts of cinchona bark(	(4 marks)				
46. List c	nemical constitue	ents ofsenna(4 marks	3)				
47. Give the	ne biological sour	rce and uses of digita	dis(4 marks)				
48. Give the	ne biological sour	rce and uses of ephe	drine(4 marks)				
49.List an	y FOUR starches	s of pharmaceutical u	se. (4 marks)				
50.Sketch	50.Sketch the skeleton for tropane alkaloid and give <b>ONE</b> example of such alkaloid(4 marks)						
Section C							
51 a) Describ	a the process of a	avtraction of alveosic	lac (10 marks)				
51. a) Describe the process of extraction of glycosides. (10 marks)							
b) Give the chemical constituents, biological source and uses of (10 marks)							
a) Aloe b) Stophanthus  52. Classify Alkaloids with examples. Give five classes with two examples each. (20 marks)							
53. Give the chemical constitients, source and uses of the following (20 marks)							
a) Clone b) Opium c) Castor oil d) Pyrethrum e) Buck wheat							
a, crone o, opium e, custor on a, i greatum e, buck wheat							