

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 called a
- 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. Whi	ich of the fo	llowing is not a constitu	uent of Opium?			
a) Morj	phine	b) Codeine	c) Cocaine	d) Papaverine		
5 Dad 9	Sanill is					
	Squill is	1) 77	\ T	10		
a) Urgi	nia indica	b) Urginia maritima	c) Eugenia cayophyllus	d) none		
6. Allii	n and Alicir	n is contained in.				
a) Garli	ic	b) Ginger	c) Turmeric	d) Clove		
a) Molib) Molic) May		ld beaters	de			
8. Whic	ch of the fol	llowing is not a use for	Tragacanth			
a) Antit	tussive	b) Suspending agen	t c) Emulsifier	d) Binding agent		
		therapeutically as				
a) Anti	malaria	b) Antifungals	c) Laxatives	d) Appetizers		
10. Astra		nmifer is the source for b) Acacia	c) Gelatin	d) Starch		
11.	Which of th	ne following statements	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	e above				
12.	Which of th	ne following is NOT a c	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. d. None of the above 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 17. A cardiac glycoside containing a five membered lactone ring is referred to as:-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 Papavera somniferum					
a.	Dried sclerotium					
b.	Gummy exudates					
c.	Dried bare					
d.	Dried latex					
23.	Azaridachta indica is known loca1ly:-					
a.	Mitishamba					
b.	Mapera					

c.	Muarobaini				
d.	Muhamsini				
24.	Ergot is obtained from theof clvriceps purpurea:-				
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:-				
I.	Vitamin A				
II.	Vitamin 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) Acit	ostaphylos uva-ursi								
b) Sily	bus marianum								
c) Gal	idium amansii								
d) Cla	viceps purpurea								
31. Ch	noose the correct identification test for anthroquinones								
	elide test								
ĺ	bermann – Burchard test								
ŕ	c) Borntragers test								
d) Muroxide test.									
32. Which of the following is not a use for Starch									
a) Disi	ntegrating agent b) Nutritive c) Emulsifier d) Binding agent								
33. Sennosides are used therapeutically as									
a) Anti malaria b) Antifungals c) Laxatives d) Appetizers									

34. Which of the following does not contain volatile oil				
a) Eucalyptus				
b) lanolin				
e				
namon				
nich of the following techniques is not suitable for extraction of volatile oils				
eurage				
nm distillation				
elle e piqeur				
d) Infusion				
Acacia is a:-				
Gummy exudate				
Dried extract				
Dried juice				
Dried latex				
Chemical tests for alkaloids include:-				
Molisch test and borntragers test				
Molisch test and kellerkilani				
Mayers test and Hagers test				
None of the above				
38. Which of the following is not a use for Acacia:-				
Emulsifying agent				
Suspending agent				
Binding agent				
Laxative				

39. What is	the use of pode	ophylloto	oxin					
a) Emetic	b) antimalar	rial c) T	reatment of Warts					
d) Suspend	d) Suspending agent							
40.What is	the use of Vinci	ristine						
a) Amoebia	asis b) antimalar	rial c) T	reatment of Warts					
d) anticanc	er							
Section B								
41. List	41. List five pharmaceutical uses of starch (4 marks)							
42. List	t five crude drug	gs contair	ing volatile oil (4 r	marks)				
43. List	43. List crude drugs containing Anthraquinone glycosides (4 marks)							
44. List	t five fixed oils	used in pl	harmacy. (4 marks)					
45. List	t chemical const	ituents of	f cinchona bark(4 n	narks)				
46. Lis	st chemical cons	tituents	of senna(4 marks)					
47. Giv	e the biological	source a	nd uses of digitalis	(4 marks)				
48. Giv	e the biological	source a	and uses of ephedria	ne(4 marks)				
49. List	t any FOUR sta	rches of p	pharmaceutical use	. (4 marks)				
50. Ske	tch the skeleton	for tropa	ne alkaloid and giv	ve ONE example of suc	h alkaloid(4 marks)			
Section C								
51. a) Des	cribe the process	s of extra	ction of glycosides	. (10 marks)				
b) Give the	chemical const	ituents, b	iological source an	d uses of (10 marks)				
a)	Aloe		b) Stophanthus					
52. Classify	y Alkaloids with	n example	es. Give five classe	s with two examples eac	ch. (20 marks)			
53. Give the chemical constitients, source and uses of the following (20 marks)								
a)	Clone b) O	pium	c) Castor oil	d) Pyrethrum	e) Buck wheat			
				-				