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UNIVERSITY OF RUHUNA - FACULTY OF MEDICINE

ALLIED HEALTH SCIENCES DEGREE PROGRAMME SECOND BPHARM PART II EXAMINATION – JUNE 2015 PH 2244: MEDICINAL CHEMISTRY & PHARMACOGNOSY IA (SEQ)

TIME: THREE HOURS

INSTRUCTIONS

- · Answer all questions.
- Do not use any correction fluid.
- Answer questions in the given answer book.
- s Warks will be deducted for illegible hand writing.

Answer all parts.	
1.1. Write four main objectives of the Department of Ayurveda in Sri Lanka.	
	(Od marks
1.2. State three main branches in Ayurveda Medicine and their relation to the so	eience.
	(12 marks)
1.3. Write three elements in Ayurveda Medicine and four elements in Unani M	edicine
which regulate the body functions.	(14 marks)

	Index No:
1.4. Name five types of problems that occur in the large s	scale manufacturing process of herbal
medicines.	(10 marks)
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	an Campilly to the Control of
ger en tre	
1.5. Define the term "adulteration."	(06 marks)
1.6. Describe briefly the two types of adulterations.	(10 marks)
	(20 1111111)
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~	*
1.7. Give one example for each of the following adultera	ations. (15 marks)
1.7. Give one example for each of the following addition	(13 mm ks)
1.7.1. Substitution with substandard commercial var	ieties
	iotios.
172 Cultification with subsysted degree	
1.7.2. Substitution with exhausted drugs.	
	antanaaa
1.7.3. Substitution with artificially manufactured sub	
1746144	
1.7.4. Substitution with superficially similar but che	aper natural substances.

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1.7.5. Addition of synthetic principles.	
1.8. Gelatin is an animal originated product.	(11 marks)
1.8.1. Name four amino acids present in gelatin.	
1.8.2. Name one amino acid not present in gelatin.	
1.8.3. Write down two different pharmaceutical uses of gelatin.	
1.9. Sketch a diagram to show the classification of fibers used in surgical of	dressings.

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02. Answer	all parts.		
2.1. Def	ine the term "Crude drug".		(06 marks)
2.2. Giv	ving one example for each source, name	three different sources of cr	ude drugs.
			(09 marks)

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	escribe briefly the classification of crud ne example for each category.	e drugs according to their var	ious factors giving (25 marks)
		e drugs according to their var	
	ne example for each category.	e drugs according to their var	
	ne example for each category.		
	ne example for each category.		
	ne example for each category.		
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	ne example for each category.		(25 marks)
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	ne example for each category.		(25 marks)

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2.5.	State one advantage and one disadvantage of each classification of crumentioned in the question 1.7.	ide drugs
	mentioned in the queenen 1	(15 marks)
		•••••
	,	
2.6	Describe briefly three factors and sub factors those can influence the	production of
	crude drugs. (You should give one example for each factor).	
		(25 marks)
2.7.	Name any five standards applied for the preparation of crude drugs.	
		(10 marks)
	1	
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• • • •		
20	Name two different extraction methods (including the type of the so	olvent and the name
2.8.	of the apparatus where required) used in the laboratory to prepar	
	from fat rich fish skin.	(10 marks)
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3. Use the following floral formula to answer following question.



3.3

3.1	Name and describe each of the symbols i	n above floral formula.	(35 marks)
(i)		
(ii)		
(iii)		
(iv)		
	v)		
	vi)		
	vii)		
,			ianja is-
	Distinguish between		
(i) Dehiscent and indehiscent fruits		
			*
i	i). Sepals and petals		
i	ii). Raceme inflorescence and Corymb in	florescence	
٠.			
	1		••••••
			(30 marks)
Give	e five leaf shapes with example for each		
	Type of fruit	Example	
	(i)		
	(ii)		
	(iii)		
	(iv)		
	(v)		
	(.)		(35 marks)

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Index No:	

.1 List five medicinally important plants in family Acanthaceae.	(20 marks)
(i)	
(ii)	
(iii)	
(iv)	
(v)	
2.2. Name two characteristics to identify following plant families	(30 marks)
(i) Solanaceae	
(ii) Poaceae	
(iii) Araceae	a (170a 740))
(iv) Euphorbiaceae	
(v) Malvaceae	
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4.3. Illustrate major tissue types in a monocot stem.	(20 marks)

4.4. List four most important facts to be included when labeling a herbarium	n specimen.	
(i)		
(ii)		
(iii)		
(iv)		
		(20 marks)
4.5. Give two reasons for preserving and maintaining herbarium.		
(i)		
(ii)		
		(10 marks)

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