THE OPEN UNIVERSITY OF SRI LANKA

B.Sc. DEGREE PROGRAMME – LEVEL 5

INDUSTRIAL CHEMISTRY – CHU 3237



FINAL EXAMINATION 2014/15

3	Н	ou	ırs

Date: 26.10.2015		Time: 9.30 a.m. – 12.30 p.m.
This question pape. (Structured type).	r consists of two sections.	Part I (Short questions) and Part II
Part I consists of 1 hour.	5 short questions; recomm	ended time to complete this part is one
	•	ected to answer four questions including nended time to complete this part is two
Index Number		Signature of Invigilator
Part 1 (40 marks)		
1. Give examples i based on rubber.	n each case of the products	of the two main types of industries
Industry	Example	es
Dry rubber		
latex		
2. Write two advar	atages of Ellingham diagra	m for oxides of elements.
		(02 marks)
3. Name two prope ceramic Industry.	erties of clay which would	make them a useful raw material in (02 marks)



4. What specific group of elements/ compounds of elements in the Peri used in glazing mixtures? Why?	(04 marks)
5. Distinguish between 'setting' and 'hardening' of cement paste.	
6. What is measured by the 'throwing power' of a plating bath?	(02 marks)
7. Briefly explaining the phenomenon, write an equation to illustrate c	(04 marks)
8. Write chemical equation(s) for the production of normal super phos from fluorapatite, [3 Ca ₃ (PO ₄) ₂ . CaF ₂].	sphate (NSP)
	(02 marks)
9. Identifying the raw material(s) used, write equations for the process	s involved in the
extraction of iron.	(04 marks)
10. Write two important characteristics that determine the quality of t	able salt.
	(02 marks)

11. Write equations for the production of iodine from natural I bearing brine.		
	(02 marks)	
12. What is visbreaking of crude petroleum? What is the purpose of doing	(03 marks)	
13. What are the pungent principles of the following species?	(03 marks)	
Ginger Chillie Pepper		
14. What are the factors that affect the melting points of fats and oils?	(02 marks)	
15. What is meant by splitting of triglycerides?	(02 marks)	
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