THE OPEN UNIVERSITY OF SRI LANKA

B.Sc. DEGREE PROGRAMME

INDUSTRIAL CHMEISTRY - CMU3232

FINAL EXAMINATION - 2015/16

Duration - Three hours (03)

Date: 15.01.2017



Time: 9.30 a.m. – 12.30 p.m.

This question	naper consists	of two parts	Part I and	Part II

- Part I consists of 15 short questions; recommended time to complete this part is one hour.
- Part II consists of six (06) questions; you are expected to answer four (04) questions. Recommended time to complete this part is two hours.

Part I (40 marks)

Index Number:	Staff signature:
Answer all questions.	
1. What is meant by "metal finishing"?	
	(02 marks)
2. Write down two types of metal finishing.	
	(02 marks)

3. For what specific purp industry.	ose/process does "drain casting" and "powder pressing "used in ceramic
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•	(02 mayler)
1 Is there any difference	(02 marks)
for your answer.	between the X- ray diffraction patterns of KCl and glass? Give reasons
	(0.4
5. Distinguish between cem	(04 marks)
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	······································
	(04 marks)
6. Identify the crystalline ph	ase(s) responsible for
Early strength	
Slow setting	
	(04 marks)
7. What is the composition of	of a blend used to measure an octane number of 90?
•••••••••••	
	(02 marks)

8. List three simple tests used to characterize crude petroleum in a refinery laboratory.				
(03 marks)				
9. What are the special characteristics of titanium metal that is extracted from rutile and ilmenite?				
(03 marks)				
10. How do you extract zircon?				
<u></u>				
(06 marks)				

11. Define the term "iodine number" of fats.	
•	(02 marks)
12. What does iodine number measure?	
	(01 marks)
13. Give two extraction methods that are used to extract essential oils from plants.	
	(02 marks)
	(02 marks)
14. What is biodiesel?	
	•
······································	(01 marks)
15. Give the necessary raw materials needed for biodiesel production	
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	(02 marks)
