Sardar Patel University

3.5c. – First Semester Examination (Old Course 2010-11 batch onwards)

22-10-2018, Monday

D. 1600K

Time: 02:00pm to 04:00pm

B.SC. Industrial Chemistry Vocational

US01CICV01 (Industrial Aspect Of Chemistry)

Notes: Figures to the right indicate full marks.

Total marks: 70

(10)

Q.1 Answer the following MCQs (All are compulsory) 1. What is the average % of carbon in Petroleum crude? C. 25-35 A. 84-86 D. 50-60 B. 15-20 2. The general formula of Paraffin is? C. C_nH_{2n} A. C_nH_{2n+2} D. C_nH_{2n-1} B. C_nH_{2n-2} 3. Which of following is the main constituent of coal gas? C. H₂ A. CO $D. O_2$ B. Methane 4. Hydrogen sulfide is removed from coal gas by reacting it with... C. H₂O A. Fe₂O₃ D. NH₃ B. NaOH 5. Pyroxylin is used in the manufacturing of C. Explosive A. Celluloid D. Lacquers B. Cupra silk 6. Which of the following gives blue colour with iodine? C. Celluloid A. β- amylase D. α-amylose B. Cellulose 7. Which of the following is a reserve carbohydrate in plants? C. Inulin A. Glycogen D. Starch B. Dextrins 8. What is the molecular formula of benitoite? C. Ba(SiO₃)₄ A. BaTi(SiO₃)₄ D. BaTi(SiO₃)₃ B. BaTi(SiO₃) 9. Which asbestos is white in colour? C. Actinolite A. Crocidolite D. Chrysotile B. Tremolite 10. What is the glass transition temperature pure SiO₂? A. 1610K B. 1500K C. 1636K

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Q.2 Answer the following short questions. (ANY TEN)	(20)
1. Define term Petroleum.	
2. Give origin of Petroleum.	
3. What is mining of Petroleum?4. What are products of carbonization?	
5. Difference between coal and coke.	• .
6. Write for low temperature carbonization.	
7. How celluloid is prepared?	·
8. Write the properties of acetate silk.	
9. Draw the structure of α- amylose.	
10. What is Diamond? Explain.	· · ·
11. Enlist applications of "Carbon".	
12. What are Asbestoses?	
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Q.3 Discuss the Refining of crude oil in details.	(10)
OR	,
Q.3 Write notes on Thermal Cracking & Catalytic Cracking.	(10)
Q.4 Explain the following:	(10)
A. Ultimate analysis of coal in detail	
B. Distillation of coal-tar.	
OR	•
Q.4 Explain the Carbonization process.	(10)
Q.4 Explain the Carbonization process.	,
Q.5 Write a note on manufacturing process of Paper.	(10)
OR	(20)
Q.5 Write the preparation, properties & uses of Starch.	(10)
Q.5 write the preparation, properties & uses of states.	(10)
O. 6 Write short notes on Clay and Mica	(10)
Q.6 Write short notes on Clay and Mica OR	. (40)
Q.6 Write structure, properties, occurrence and preparation of Alumina & Zeo	olites. (10)
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