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Council for Technical Education and Vocational Training Office of the Controller of Examinations

Sanothimi, Bhaktapur Regular/Back Exam-2077, Chaitra

| Program: Diploma in Engineering ALL Year: I / II [2008 to 2018] Subject: Engineering Chemistry II Candidates are required to | Full Marks: 60 Pass Marks: 24 Time: 3 hrs |
|--|---|
| Candidates are required to give their answers in their as practicable. The figures in the margin indicate full n | own words as far narks. |
| Attempt Any Six questions. | |
| 1.a) Define hardness of water. How can yo permanent hardness of water by permutit procare the natural sources of water? | ess? What |
| b) Describe in detail the manufacture process of by Ostwald's process with well labeled diagram 2.a) Describe the manufacturing process of sulphy | |
| contact process (principle and diagram only) | |
| b) Define acid rain. Explain the chemical fertilizer | in detail. [2+3] |
| 3.a) Explain the laboratory preparation of hydroc | chloric acid [5] |
| with required diagram. b) What are the allotrophs of carbon? Explain the of diamond. Website:- https://www.arjun0 | u.com.np |
| 4.a) What do you mean by bleaching action of chloare effect of oxides of carbon on environ human? | rine? What 151 |
| b) Describe the manufacture process of ar Haber's process. | • |
| 5.a) Define alkaline earth metal. What are the properties of alkaline earth metals? (Specially | of calcium) |
| b) Define coinage metals? What are the prepared capper? | operties of [1+4] |
| 6.a) What do you mean by functional group? properties of methane | Explain the [1+4] |
| b) Define Polymer? Explain the types and uses of | of rubber. [5] |
| 7.a) What happen when: | [2x2=4 |
| (i) Steam is passed over red hot iron. (ii) Sodium is heated with ammonia. b) Write short notes on: a Homologous series b Polyethene | [3x2=6] s |
| Good Luck! | |

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