BE I Year CSE A, CSE B

新加州教授

08-02-2023 Test-3 1ACRC2 Applied Chemistry and Environmental Science Max marks: 20, Time: 70 mins

Note: Answer any four questions carrying equal marks.

Q.1 Define and classify water hardness. Calculate temporary, permanent and total hardness of water containing following impurities (mg/L): Mg(HCO₃)₂= 36, Ca(HCO₃)₂= 81, CaSO₄- 68, MgCl₂= 95, CaCl₂= 111, NaCl= 25. Is this water sample fit for drinking?

Q.2 List and explain various boiler troubles associated using hard water. Q.3 Compare between Lime-soda method and Ion-exchange method used for water softening including their principle, process, advantages and limitations. O 4 Define Spectrons

Q.4 List and classify air pollutants including their examples, sources, harmful effects and possible control measures.

Q.5 Name four segments of Environment. Explain any one segment in detail including our interactions with it.