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CHECKERY

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Instruction de la

- (i) The results to substitute a the right condition on
- There are NINZ quest in this paper
- [iii] Attempt FIVB questions in the Check in the Companion;
- 1. Fill in the blank-/miswer i by second quest his 247 to
 - (a) clared sees of sample water containing 1.11 mg/ls CaCl, and 0.95 MgCl; 1.42 mg/lst Na₂SO₄ is no ppin point (1)
 - (b) Trayline is condensation polymer of
 - (c) Minat is Pilling-Redworth law?
 - (d) Colligative properties of entire decreases

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- (f) Why boiling point of water mereases when NaCl is added?
- (g) Why small anodic area results in intense corrosion?
- (h) Gutta-percha is polymer of -
- (i) Define octane number
- (j) Aluminium vessels are used to store cone. HNO₃. Explain
- (a) Write the principle of lime-soda process of softening of hard water.
 - (b) What are the causes of boiler corrosion?

 How is it controlled?
 - (c) A 100 ml of water sample is boiled with \$5 mt (N/10) Na₂CO₃ solution. The resultant solution is cooled and filtered. The filtrate required 15 ml (N/20) HCl solution for complete neutralization. Calculate the hardness of water sample.
 - (d) What is Raoult's law? Deduce the relation between relative lowering of 'vapour pressure and osmotic pressure. 3+5

A 3 4% solution of silver nitrate is isotonic with 0-4 M sucrose solution. Calculate the degree of dissociation of silver mitrate

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- 4. (a) Differentiate between thei mosettin and thermoplastic resins
 - (b) Describe the free radical polymen ation mechanism.
 - (c) Write the preparation and uses of the following .
 - (i) Buna-S
 - (u) ABS polymer
 - (m) Nylon
- 5. (a) Explain carbonization of coal 4
 - (b) Compare the water gas and producer gas in terms of production, composition and calorific value.
 - (c) How is calorific value of a solid determined by bomb calorimeter?
- 6. (a) What is electrode potential and e.m.f
 - (b) Define glass transition temperature 4
 - (c) A 100 ml of water sample required
 28 4 ml EDTA solution for utration
 (1 ml EDTA = 1 11 mg CaCl₂) Calculate
 the hardness of the sample water 6

- 7. (a) In $\sigma \approx 0.05 \, \rm machinems$ at day and were $\sigma = 0.05 \, \rm m$
 - (b) What are the factors that affect the rate of correction?
 - (c) Describe sacrifical anothe protection metal of controlly green error.
- 8. Describe the methods of previation of the following: 3½×4=14
 - (a) Scale and sharps termston
 - (b) Causic embuttlement
 - (c) Princing and fearing
 - (d) Knocking
- 9. Write short notes on :

3 1/2×4=14

- (a) Water line corrosion
- (b) Crevices corresion
- (c) Galvanic series
- (d) van't Hoff factor

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