

Engineering Chemistry-II : Mid-Term Exam-2021

Group-II/Set-II

Total Marks : 20

Time : 1 Hour

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1. The following factors play vital role in corrosion process-

1 point

- ☐ Temperature
- ☐ Solute concentration
- ☐ Both
- ☐ None of these

2. Passivity is due to

1 point

- ☐ Higher EMF
- ☐ Lower EMF
- ☐ Oxide film
- ☐ All

3. When Pt and Co are electrically connected, which one gets corroded

1 point

- ☐ Pt
- ☐ Co
- ☐ None
- ☐ Can't decide



4. Which of the following can be used for cathodic protection?

1 point

- ☐ Al
- ☐ Cd
- ☐ Cu
- ☐ None of these

5. Volatile oxidation corrosion product of a metal is

1 point

- ☐ Fe_2O_3
- ☐ MoO_3
- ☐ Fe_3O_4
- ☐ FeO

6. The chemical composition of tobermonite gel is

1 point

- ☐ Calcium silicate hydrate
- ☐ Aluminium silicate hydrate
- ☐ Calcium aluminium hydrate
- ☐ Calcium sulphoaluminate

7. The chemical change during the setting of cement is -

1 point

- ☐ Crystallization
- ☐ Solvation
- ☐ Hydration
- ☐ None



8. Among the following which cement is used in dentistry?

1 point

- ☐ Sorel cement
- ☐ Silicate cement
- ☐ Puzzolana cement
- ☐ Alumina cement

9. Which compound is used to increase the rate of hardening of magnesium oxychloride cement?

1 point

- ☐ CaCl_2
- ☐ MgCl_2
- ☐ CaSO_4
- ☐ CaCO_3

10. The reaction $4\text{CaO} + \text{Fe}_2\text{O}_3 + \text{Al}_2\text{O}_3 \rightarrow 4\text{CaO} \cdot \text{Fe}_2\text{O}_3 \cdot \text{Al}_2\text{O}_3$ takes place in the following zone of rotary kiln.

1 point

- ☐ Drying zone
- ☐ Burning zone
- ☐ Calcination zone
- ☐ Clinkering zone



11. Which of the following statement is true in the context of cement?

1 point

- ☐ Tobermonite gel have very good adhesive as well as cohesive property.
- ☐ Portland cement contains high percentage of C2S and less percentage of C3S
- ☐ Silica in excess causes the cement to set very slowly
- ☐ Slag cement can harden by adding accelerators such as clay, salt, sodium fluosilicates and ethyl acetate.

12. Which chemical composition has highest content in Ordinary Portland cement?

1 point

- ☐ Alumina
- ☐ Lime
- ☐ Silica
- ☐ Gypsum

13. Which of the following statement is false in the context of cement

1 point

- ☐ The initial setting of cement is caused due to tri-calcium aluminate
- ☐ High alumina cement is produced by fusing limestone and bauxite together
- ☐ Clinkers is a mixture of calcium aluminates and gypsum.
- ☐ Calcium sulphate dihydrate retards the dissolution of C3A by forming insoluble Tricalcium sulpho-aluminate



14. K_2O is an example of oxide film.

1 point

- ☐ Stable
- ☐ Unstable
- ☐ Volatile
- ☐ Porous

15. $SnCl_4$ is an example of film.

1 point

- ☐ Stable
- ☐ Unstable
- ☐ Volatile
- ☐ Porous

16. In which of the following, NaOH concentration cell is formed?

1 point

- ☐ Pitting corrosion
- ☐ Boiler corrosion
- ☐ Waterline corrosion
- ☐ none of these

17. Which metal shows self healing property?

1 point

- ☐ Iron
- ☐ Chromium
- ☐ Potassium
- ☐ Magnesium



18. Which metal can be used as sacrificial anode?

1 point

- ☐ Iron
- ☐ Chromium
- ☐ Nickle
- ☐ Magnesium

19. Water proofing property of cement is due to the presence of-

1 point

- ☐ Ferric oxide
- ☐ Sodium oxide
- ☐ Sodium stearate
- ☐ Calcium stearate

20. Which cement is used for making concrete shield in nuclear reactor?

1 point

- ☐ Sorel cement
- ☐ Strontium cement
- ☐ Alumina cement
- ☐ Silicate cement

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