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SRINIX COLLEGE OF ENGINEERING

2nd INTERNAL EXAMINATION-2021-22

Subject-CHE

Semester-1ST

Branch-SEC-A

Full Mark-100

Time-2.30Hrs

ANSWER all QUESTIONS (PART-A)

[2X10=20]

1. What is Nanotechnology?
2. The rate of metallic corrosion increases with increase in temperature .Give reason.
3. Define Corrosion.
4. Impure metal corrodes faster than pure metal under identical condition .Why?
5. What is Dry Corrosion?
6. Why are Galvanized utensils not used for packaging of food stuffs?
7. What is Tinning?
8. Formation of which types of metal oxide film prevents corrosion?
9. What is Nanomaterials .Give one example?
10. Write two examples of Nanomaterial?

ANSWER ANY EIGHT QUESTIONS (PART-B)

[6X8=48]

1. What is Pitting Corrosion? Mention the causes and prevention of pitting corrosion.
2. Describe Water –line Corrosion?
3. Draw a diagram for top-down approach synthesis of nanomaterial with detail.
4. Describe Tinning process detail with diagram?
5. Describe the application of Nanomaterial for electronics?
6. Describe the Chemical process of Caustic –embrittlement?
7. What is Corrosion? Write down the types of Corrosion.
8. Explain details Differential Metal Corrosion.
9. Draw a diagram for bottom –up approach synthesis of nanomaterial with detail.

ANSWER ANY TWO QUESTIONS (PART-C)

[16X2=32]

1. Explain all the factors influencing the rate of Corrosion.
2. Describe details applications of Nanomaterial for environment.
3. What are the applications of Nanotechnology for future prospects of a Human being?