

DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE

Mid Semester Examination – OCT. 2019

Course: B. Tech in Chemical Engineering

Sem: III

Subject Name: Advanced Engg. Chemistry

Subject Code: BTBSC305

Max Marks: 20

Date: 9/10/19

Duration: 1 Hr.

Instructions to the Students:

1. Do not write anything on question paper
2. Neat and labeled diagram must be drawn whenever necessary.
3. Use of non programmable calculator is allowed.
4. Figures to the right indicate full marks.
5. Assume suitable data if required

Q. 1 Multiple choice questions

(Level/CO)

Marks

6

1. Wet corrosion is also called as,
A. Chemical corrosion B. Oxidation corrosion C. Electrochemical corrosion
D. Liquid metal corrosion
2. Smaller the grain size, corrosion is
A. Greater B. Lower C. Constant D. Does not affected
3. A polymer made of identical monomer units is called,
A. Linear polymer B. Homo polymer C. Branched Polymer D. Copolymer
4. Which of the following polymer is obtained by condensation polymerization?
A. Teflon B. Rubber C. Styrene D. Nylon 6:6
5. A photochemical reaction is,
A. Accompanied with emission of light B. Catalyzed by light C. Initiated by light D. All of the above
6. When two molecules reacted or formed per photon of light absorbed, then the quantum yield of such reaction is,
A. One B. Less than one C. Two D. None of above

CO1, CO2, CO3

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Q. 2 Solve Any Two of the following.

3 X 2

- (A) Discuss the importance of design and material selection in controlling corrosion. CO1
- (B) What is meant by quantum yield of photochemical reaction? Discuss it. CO2
- (C) Explain the functions of any three constituents used in compounding of plastics. CO3

Q. 3 Solve Any One of the following.

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- (A) What is electrochemical corrosion? Explain in brief mechanism of electrochemical corrosion by evolution of hydrogen and absorption of oxygen. CO1
- (B) What is plastic? Bring out the differences between thermoplastic and thermosetting plastics. CO3

*** End ***

