Assignment 9

The due date for submitting this assignment has passed.

As per our records you have not submitted this assignment.

1) Which of the following compound is not a chain transfer agent for free radical initiation?
   - Methylnitrene
   - Aliphatic Alcohol
   - Mercaptans
   - Polynuclear quinones

   No. the answer is incorrect. Score: 0
   Accepted Answers: Polynuclear quinones

2) In the powder suspension polymerization, the polymer is insoluble in its monomer and thus precipitates contributing to the formation of irregular grains or particulate.
   - True
   - False

   No. the answer is incorrect. Score: 0
   Accepted Answers: True

3) Statement 1: chain transfer agents in free radical initiation are helpful in the cases where molecular weight of the product is to be controlled.
   - Statement 1 is correct; Statement 2 is incorrect
   - Statement 1 is incorrect; Statement 2 is correct
   - Statement 1 is incorrect; Statement 2 is incorrect

   No. the answer is incorrect. Score: 0
   Accepted Answers: Statement 1 is correct; Statement 2 is incorrect

4) Statement 1: chain transfer agent results in retardation in rate of reaction. Choose the correct option
   - Statement 1 is correct; Statement 2 is correct
   - Statement 1 is incorrect; Statement 2 is incorrect
   - Statement 1 is incorrect; Statement 2 is incorrect

   No. the answer is incorrect. Score: 0
   Accepted Answers: Statement 1 is correct; Statement 2 is correct

5) The compounds which absorbs the desired amount of photo energy, to reach its excitation stage and finally reacts with the second compound to generate free radical is called
   - Photoreactant
   - Photocatalyst
   - Photoinitiator
   - Spectrophotography

   No. the answer is incorrect. Score: 0
   Accepted Answers: Photoinitiator

6) Kinetic chain length can be defined as the ratio of
   - polymerization rate / initiation rate
   - polymerization rate / termination rate
   - initiation rate / termination rate

   No. the answer is incorrect. Score: 0
   Accepted Answers: polymerization rate / initiation rate

7) In potentiostatic synthesis of radical polymerization the electrode potential between the working electrode and the reference electrodes is maintained unchanged.
   - True
   - False

   No. the answer is incorrect. Score: 0
   Accepted Answers: False

8) During plasma polymerization the polymeric material forms inside the low pressure plasma reactor by using
   - the plasma state of monomers
   - monomer species created in the plasma state
   - graft polymerization
   - None

   No. the answer is incorrect. Score: 0
   Accepted Answers: the plasma state of monomers

9) During chain transfer reaction in radical polymerization, the polymerization of polymer occurs if
   - k_trf/P = k_trf/k2 + k_trf
   - k_trf/P = k_trf/k2 + k_trf
   - k_trf/P = k_trf/k2 + k_trf
   - None

   No. the answer is incorrect. Score: 0
   Accepted Answers: k_trf/P = k_trf/k2 + k2

10) The overall activation energy for rate of polymerization (E_P) is: Note: E denotes activation energy, (a), (b), (c) and (d) denotes initiation, propagation, decomposition, and termination respectively.
    - E_P = E_groups + E220 / E220
    - E_P = E_groups + E220 / E220
    - E_P = E_groups + E220 / E220

    No. the answer is incorrect. Score: 0
    Accepted Answers: E_P = E_groups + E220 / E220