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Congratulations – you have completed **Chemical Reaction Engineering Online Test Set 1**.

You scored **2** points out of **10** points total.

Your answers are shown below:

1. When a catalyst increases the rate of forward reaction, the value of rate constant

- **increases**
- decreases
- remain same
- becomes infinite

2. 'Unreacted core model' represents the reaction involving

- combustion of coal particles
- **roasting of sulphide ores**
- manufacture of carbon disulphide from elements
- none of these

3. The rate constant of a chemical reaction increases by increasing the

- temperature
- **pressure**
- reactant's concentration
- none of these

4. Pick out the correct statement

- A lower temperature favours the reaction of lower activation energy
- Pore volume and porosity of a catalyst is measured by Brunaver-Emmet-Teller (BET) technique
- **The dispersion number for a reactor/vessel is uL/D**
- The rate controlling step in a reaction involving many steps is the fastest step

5. A photochemical reaction is _____ light

- used to convert heat energy into
- accompanied with emission of
- **catalysed by**
- initiated by



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6. A batch reactor is characterised by

- variation in extent of reaction and properties of the reaction mixture with time
- constant residence time
- **very low conversion**
- variation in reactor volume

7. For nearly isothermal operation involving large reaction time in a liquid-phase reaction, the most suitable reactor is a _____ reactor

- tubular flow
- stirred tank
- **batch**
- fixed bed

8. Pick out the wrong statement

- In a semi-batch reactor, one reactant is charged batchwise, while the other reactant is fed continuously
- **In a batch reactor, which is exclusively used for liquid phase reactions; temperature pressure and composition may vary with time**
- In a continuous flow reactor, both the reactants and the products flow out continuously
- In a continuous flow reactor, uniform concentration can not be maintained throughout the vessel even in a well agitated system

9. In a/an _____ reactor, there is exchange of heat with the surroundings with sizeable temperature variation

- isothermal
- adiabatic
- non-adiabatic
- **none of these**

10. In case of _____ reactions, the reaction rate does not decrease appreciably as the reaction proceeds

- **series**
- parallel
- auto catalytic
- catalytic

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