Assignment 9

The due date for submitting this assignment has passed. As per our records you have not submitted this assignment.

1. The key metal that played significant effort in the discovery of the Ziegler-Natta polymers is, 7 points
   - Mg
   - Zn
   - Ni
   - H2
   
   No, the answer is incorrect.
   Accepted Answer: Mg

2. The key intermediate species in the heterogeneous polymerization of ethylene involving Cr catalyst where the insertion of ethylene occurs is, 7 points
   - Cr-O-R species
   - Cr-O-R2 species
   - Cr-O-R3 species
   - Cr-O-R4 species
   
   No, the answer is incorrect.
   Accepted Answer: Cr-O-R2 species

3. The chain termination of the polymer chain at the catalytic center is due to the, 7 points
   - a-hydride elimination
   - b-hydride elimination
   - degradative addition of CH4
   - migratory insertion of CH4
   
   No, the answer is incorrect.
   Accepted Answer: degradative addition of CH4

4. The surface reaction occurs, 7 points
   - R3Al + H2O
   - MAO
   - TiCl4
   - TiCl3
   
   No, the answer is incorrect.
   Accepted Answer: R3Al + H2O

5. Limitation of the surface reaction is, 7 points
   - chain length is up to C120
   - chain length is up to C200
   - operates under very high pressure
   - operates under very high temperature
   
   No, the answer is incorrect.
   Accepted Answer: chain length is up to C120

6. The possible decomposition pathway of the surface reaction is, 7 points
   - carbonate bridging
   - dehydrogenation
   - the disproportion reaction to monomeric
   - oxidized to Al2
   
   No, the answer is incorrect.
   Accepted Answer: carbonate bridging

7. The metal that caused significant change during the investigation of surface reaction is, 7 points
   - Ag
   - Zn
   - Ni
   - Cu
   
   No, the answer is incorrect.
   Accepted Answer: Ag

8. The presence of nickel during the investigation of surface reaction led to the, 7 points
   - exclusive formation of linear polyethylene
   - exclusive formation of branched polyethylene
   - exclusive formation of D-hexane
   - exclusive formation of 1-butene
   
   No, the answer is incorrect.
   Accepted Answer: exclusive formation of linear polyethylene

9. Polymers produced in the ethylene polymerisation using Ziegler-Natta catalyst is, 7 points
   - LDPE
   - HDPE
   - DLPE
   - LLDPE
   
   No, the answer is incorrect.
   Accepted Answer: LLDPE

10. The HDPE produced in the Ziegler-Natta ethylene polymerisation processes, 7 points
    - long linear polymer chain
    - high branching
    - short linear oligomers
    - short chain branching
    
    No, the answer is incorrect.
    Accepted Answer: long linear polymer chain

11. Polymeric chain of long chain polymeric chain act as branched. 7 points
    
    No, the answer is incorrect.
    Accepted Answer: long linear polymer chain

12. The HDPE produced in the Ziegler-Natta ethylene polymerisation processes, 7 points
    - long linear polymer chain
    - high branching
    - short linear oligomers
    - short chain branching
    
    No, the answer is incorrect.
    Accepted Answer: long linear polymer chain

13. The HDPE produced in the Ziegler-Natta ethylene polymerisation processes, 7 points
    - long linear polymer chain
    - high branching
    - short linear oligomers
    - short chain branching
    
    No, the answer is incorrect.
    Accepted Answer: long linear polymer chain

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