MULTIPLE CHOICE QUESTIONS (MCQ)

CHAPTER 5. HETEROGENEOUS CATALYSIS

Q1) Choose the correct option from following and write in right side box  1 Mark

1) Which catalyst is used for hydrogenation of vegetable oil?
   a) HPA   b) amberlyst   c) Pd/C   d) Raney Nickel

2) Which catalyst is used in synthesis of TPA from xylene?
   a) ZSM - 5   b) amberlyst   c) Pd/C   d) Raney Nickel

3) Which are properties of solid acid catalysts?
   a) strong acidic   b) provide clean environment
   c) high catalytic activity   d) all the three

4) Which catalyst is used in benzoic acid from toluene?
   a) ZSM - 5   b) KMnO₄   c) Pd/C   d) Raney Nickel

5) Which are the properties of heterogeneous catalysis?
   a) stable catalytic activity   b) should not be poisoned
   c) operative at high temperature   d) all the three
6) Which catalyst is used in hydrogenation of alkene to alkane?
   a) ZSM - 5   b) KMnO₄   c) Pd/C   d) Raney Nickel

7) Which catalyst is used in the synthesis of p-aminophenol from nitrobenzene?
   a) ZSM - 5   b) KMnO₄   c) Pd/C   d) Raney Nickel

8) Which catalyst is used in the synthesis of Benzimidazole from o-phenyldiamine and benzaldehyde?
   a) amberlite   b) acid support   c) ammonium chloride   d) any of above