

---

### Aptitude

1) A farmer used 1034 acres of land for growing rice, wheat and corn in the ratio of 5:2:4 respectively. How many acres were used for growing corn?

- A) 188 acres                      B) 258 acres                      C) 376 acres                      D) 470 acres

2) How many times should the keys of a keyboard be pressed in order to type the first 300 counting numbers? (i.e. to type 1, 2, 3 ... 300)

- A) 362                                  B) 1448                                  C) 1504                                  D) 792

3) The more she learnt \_\_\_\_\_ the American Civil War, the more fascinated she became.

- A) About                                  B) From                                  C) Off                                  D) With

---

### Chemical Engineering

4) The specific reaction rate constant of a first order reaction  $k = 0.01$ . What is the time required for 60% conversion in a batch reactor?

[Note:  $\ln 0.4 = -0.67$ ]

- A) 37 minutes                      B) 47 minutes                      C) 57 minutes                      D) 67 minutes

5) A cold fluid flowing on inner pipe of a DPHE is heated from 32.5 to 75°C by steam condensing on the outer pipe at 100°C. What is Log Mean Temperature Difference, LMTD?

[Note:  $\ln 2.7 = 1$ ]

- A) 52.5°C                      B) 42.5°C                      C) 32.5°C                      D) 67.5°C

6) Pillows and mattresses belong to which category of plastics/ polymers?

- A) Foamed plastics  
B) Thermosetting plastics  
C) Synthetic polymers  
D) Ladder polymers

# Test Prime

**ALL EXAMS,  
ONE SUBSCRIPTION**



**70,000+**  
Mock Tests



**Personalised  
Report Card**



**Unlimited  
Re-Attempt**



**600+**  
Exam Covered



**Previous Year  
Papers**



**500%**  
Refund



**ATTEMPT FREE MOCK NOW**