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## 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
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## Mechanical Engineering

4) What is the phenomenon of emf development between two different metals placed in contact known as?

- A) Seeback effect                      B) Thomson effect                      C) Peltier effect                      D) Thermocouple effect

5) Define the gross head in a turbine installation.

- A) The difference of level between the head race and the tail race  
B) The difference of level between the reservoir and down stream  
C) The difference of head between axis of turbine to discharge stream level  
D) The head is actually used in developing power

6) Which of the following bearings will have the least coefficient of friction?

- A) Self aligning bearing      B) Cylindrical roller bearing      C) Thrust ball bearing      D) Tapered bearing