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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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### Electrical Engineering

4) Octave frequency (the interval between two sounds) is specified by which of the following expressions?

- A)  $\omega_2/\omega_1 = 1$                       B)  $\omega_2/\omega_1 = 2$                       C)  $\omega_2/\omega_1 = 4$                       D)  $\omega_2/\omega_1 = 8$

5) A load draws 10W power from a 10V source and is carrying a current of 10A. What is the power factor?

- A) Unity                              B) 0.1                              C) 0.01                              D) 0.001

6) What is the time constant of an RC series circuit?

- A) R/C                              B) C/R                              C) 1/RC                              D) RC

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