
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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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
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