

**BITS Pilani, Dubai Campus**  
**Dubai International Academic City**  
**First Semester 2012-2013**

I Year  
 ME F110 Workshop Practice  
 Time: 20 min.

Quiz II  
 Date: 18.12.2012  
 Weightage: 7%                      Marks: 14

Name: \_\_\_\_\_

Reg. No.: \_\_\_\_\_

**Tick the correct answer for first three questions.**

(3 X1)

1. Reaming operation is done to \_\_\_\_\_  
 a. Correct the hole location                      b. Enlarge the hole  
 c. to improve the surface finish of the hole
  
2. Too low current in a welding process will result in  
 a. Poor penetration                                      b. Excessive spatter  
 c. irregular deposits
  
3. Precision is the term which defines  
 a. Closeness of the multiple readings taken in a measuring instrument.  
 b. Closeness of the measurement with respect to the actual value.
  
4. Write the name of the tools used for following purpose.                      (3)  
 a. For smoothing the surface of the mould  
 b. For removing foreign partials  
 c. For making small holes to permit gases to escape.

**Answers**    a. \_\_\_\_\_

b. \_\_\_\_\_

c. \_\_\_\_\_

5. Mention the advantage of having helical flutes in a drill bit. (2)

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6. Name the three basic angles of a Single point cutting tool. (3)

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7. Write the purpose / the following G code and M code stands for (6 x 0.5)

a. M 03 \_\_\_\_\_

b. M 05 \_\_\_\_\_

c. M 17 \_\_\_\_\_

d. G 00 \_\_\_\_\_

e. G 03 \_\_\_\_\_

f. G 91 \_\_\_\_\_

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**I Year**  
**ME F110 Workshop Practice**  
**Time: 20 min.**

**Quiz 1**  
**Date: 01.11.2012**  
**Weightage: 8%**

**Marks: 16**

**Answer any 4 questions**

1. List the applications of Triangle and Square file with a sketch.
2. List the types of saws used in carpentry shop and its application.
3. Compare hot working and Cold working processes.
4. Name any four tools used in sheet metal and its purposes.
5. With a neat diagram explain the types of welding joints
6. With neat diagram explain the use of riser and vent rods.
7. Show the calculation for finding the spindle speed (rpm) for drilling 6mm hole in a radial drilling machine. Cutting speed is 30m/min.
8. With sketch explain drilling, boring, tapping and counter sinking.
9. Differentiate shaper and planner.
10. Differentiate up milling and down milling with simple sketch.
11. Write the various measuring instruments used in metrology and write the least count of each instrument. Also show how least count is calculated for micrometer.