Drill Press Safety

All websites in this article are linked to the Mechanical Processes - Drill Press Safety website At http://cf.linnbenton.edu/eit/auto/krolicp/web.cfm?pgID=2235
Go to the below website to answer questions 1 – 4

1) In your own words, explain the two methods for adjusting the speed of a drill press.

Match the component to the letter in this picture (don’t hesitate to ask questions)

_____  base
_____  column
_____  table
_____  power head
_____  spindle
_____  V-Belt
_____  Motor
_____  Feed Lever

2) According to the general procedures, when should you wear safety glasses?

3) The general procedures state you should never make any adjustment to the drill press when it is running. What is the one exception to this rule?
4) Drill press speeds should be slower for larger drill bits. (circle one answer)
   A) True
   B) False

Read the article below for questions 5 – 8
http://topsoil.nserl.purdue.edu/nserlweb/safetywebsite/SOPs/Powermatic%20Drill%20Press.html

5) Why should you not have loose clothing, rings or jewelry on when working with a drill press?

6) Why should you not use a rag to clean the drill press table?

7) When using a drill press how do you hold the material you are drilling?

8) What can happen if you fail to follow proper safety with a drill press?
   (list 4 things mentioned in this article)

Go to the below website for questions 9 - 12

9) Why should you run a ½” drill bit at a slower speed than a ¼” drill bit?

10) Heat causes reduced hardness (loss of temper) in a drill bit. What is a common way drill bits get overheated?
11) Which is better, a little too light a feed pressure or a little too heavy a feed pressure.

12) How do you increase a feed rate?
    A) Push harder on the feed lever
    B) Increase the RPM of the drill

13) How can you get the most accurate hole when drilling?

14) What type of drill bit should you use for hardened steel?

15) Which material uses a faster cutting speed, soft aluminum or hard steel?

16) What can happen if the item you are drilling (work-piece) is not held securely?

17) What is the most common type of work holding device?
18) Why will the wrong speed or feed ruin a drill bit?

19) What happens if you try to use a twist drill with the tip ground off center?

20) What does it mean when a drill bit loses it’s temper

21) What do you need to do before you use the drill press in any LBCC shop?