

Metal Buildings Institute

Bolting & Aligning Final Test

Name: (Please Print) _____

Signature _____ Date _____

Circle the letter that best answers or completes each of the questions or statements.

1.) The length of the bolt is measured from the end of the threads to where ?

- A.) Top of the head
- B.) To the shank
- C.) Underside of the head

2) UNC stands for

- A.) United National Coarse.
- B.) Unified National Coarse
- C.) Utility National Coarse

3) On a 3/4 - 20 UNC 2 1/2" bolt, how many threads per inch ?

- A.) 20
- B.) 2 1/2
- C.) 3/4

4) The 3 main types of bolts used in the erection of metal buildings are ...

- A.) _____
- B.) _____
- C.) _____

5) What markings must be on the head of the type 1 A325 bolt ?

- A.) Three lines @ 120 degrees
- B.) Manufacturers Mark
- C.) A325

6.) Which of the following statements is false?.....

- A.) Torque is the amount of twisting or turning force used to tighten a nut to a bolt.
- B.) Grip is the distance from behind the bolt head to the back of the nut or washer.
- C.) The same torque applied to a nut and bolt always results in the same grip.
- D.) All of the above are true.

7.) Which high strength bolt is always made from alloy steel ?.....

- A.) A490
- B.) A325
- C.) A307
- D.) All of the above

8.) What provides a square seat for a bolt head or nut when either is put through a sloping face ?.....

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- 9.) What 2 types of bolts may never be reused after they have been pretensioned ?
- A.) A325
 - B.) A490
 - C.) Galvanized
- 10.) What term is used to describe the point when an impact wrench begins to impact ?
- A.) Snug Tight
 - B.) Tight enough
 - C.) Tight fit
- 11.) Name the three parts of a bolt ...
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- 12.) With the turn of the nut method, how much should the nut be turned if the bolt length is up to and including 4 diameters
- A.) 1/2 turn
 - B.) 1/3 turn
 - C.) 3/4 turn
- 13.) How often must a torque wrench be recalibrated ?
- A.) Once a day
 - B.) Once a week
 - C.) Every time it is used
- 14.) What is a squirter ?
- A.) A leaking caulking gun
 - B.) An over oiled bolt
 - C.) Direct Tension Indicator
- 15.) How much can you enlarge a hole for a 3/4 inch bolt ?
- A.) 1/8 inch
 - B.) 2/16 inch
 - C.) 4/64 inch
 - D.) All of the above
- 16.) What do you do with unused fasteners at the end of a shift ?
- A.) Cover with plastic
 - B.) Return to protective storage
 - C.) Lay out for next day