1. Which of the following issues causes coarse grain structure and lower notch toughness in the interior portions of the cross sections of heavy shapes and plates?
   a. Segregation
   b. Slower cooling
   c. Reduced rolling
   d. All of the above

2. What is the flange thickness beyond which an ASTM A6/A6M hot-rolled shape is considered a rolled heavy shape, according to AISC 360-16?
   a. 1 in.
   b. 2 in.
   c. 3 in.
   d. 5 in.

3. True or False: Weld access holes in “jumbo” sections, made in accordance with the geometrical requirements of the AISC Specification, may result in holes that are too small to provide access for welding.
   a. True
   b. False

4. True or False: A stepped connection is the preferred type of HSS-to-HSS connections when the main member is a rectangular HSS with a large corner radius.
   a. True
   b. False

5. Which of the following is the preferred HSS truss connection type from the perspective of constructability and inspection?
   a. Branched
   b. Flushed
   c. Gapped
   d. Overlapped
6. Which of the following categories, from AISC 303-16, apply to showcase elements?
   a. AESS 1
   b. AESS 4
   c. SSS
   d. None of the above

7. Which of the following requirements applies to an AESS mock-up?
   a. Bright lighting shall be used
   b. Shall be viewed for a distance less than 10 ft
   c. Shall not be coated
   d. None of the above

8. According to the speaker, which of the following is a myth about field welding?
   a. The choice of shop welding versus field welding is primarily an issue of cost
   b. Codes do not apply to field welding
   c. Out-of-position welding may be needed in the field
   d. All of the above

9. Which of the following is incorrect about the modulus of elasticity of steel at elevated temperatures?
   a. Modulus of elasticity is reduced at lower elevated temperatures than tensile strength and yield strength
   b. Modulus of elasticity is generally unaffected for temperatures up to 650 degrees Fahrenheit
   c. Modulus of elasticity approaches zero at very high temperatures

10. Which of the following does NOT occur as a result of cold working and strain ageing of steel?
    a. The yield and tensile strengths of the steel decrease
    b. The ductility of the steel decreases
    c. The notch toughness of the steel decreases
    d. None of the above – all of these occur as a result of cold working and strain ageing