1. [F] Temper rolling or skin pass rolling of low carbon steel sheets is used to eliminate orange peel defect in forming of these sheets.

2. [T] The distortion due to hardening is higher in water hardening tool steels than in air hardening tool steels.

3. [F] For large productions, high carbon high chromium tool steel is commonly used for manufacturing dies because it has highest machinability among the cold work tool steels.

4. [F] Hardenability of tool steels is a measure of maximum hardness that can be obtained during quenching.

5. [F] In the hot work tool steels, the Cr-base tool steels possess higher red hardness than W-base tool steels.

6. [T] Shock resisting tool steel is a suitable material for forging hammers.

7. [F] In deep drawing, wrinkling is due to excessive blank holding pressure.

8. [F] Earing in deep drawing can be eliminated by increasing the clearance between the die and the punch.

9. [T] The maximum possible reduction in diameter in deep drawing of cylindrical cups from isotropic sheets in a single stage is theoretically 63%.

10. [T] Sheet materials with average plastic strain ratio more than one are preferred for high drawability.

11. [T] The extent of thinning in stretch forming is usually higher than in deep drawing.

12. [F] Stretch forming is commonly used for parts with large depth and small radius of curvature.

13. [T] The state of stress in stretch forming is biaxial tension in the entire region of deformation.

14. [T] Better uniformity of strain distribution can be obtained in stretch forming of annealed sheets than as-rolled sheets of same material and thickness.

15. [T] If the reduction in area in a tensile test of a sheet material is 25%, the minimum bend radius of this sheet will be equal to sheet thickness.

16. [F] Springback in bending increases with increase in elastic modulus.

17. [F] As a result of springback, the residual stress at the inner surface of the bent specimen will be compressive.

18. [F] Force required in V-bending increases with increase in die opening width if all the other parameters remain same.

19. [F] The punch-die clearance in shearing decreases with increase in ductility of the sheet.

20. [F] In blanking, punch penetration is independent of ductility of the sheet metal.