1. Which metalworking process involves cutting sheet metal into desired shapes using a punch and die set?

a) Forging
b) Blanking
c) Casting
d) Extrusion

Answer: b) Blanking

Explanation: Blanking is a metalworking process where a punch and die set is used to cut sheet metal into desired shapes, leaving the desired part called a blank. It is commonly used in the production of coins, washers, and other flat parts.

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2. In press working tools, what is the function of a piercing die?

a) Cutting out holes in the metal
b) Bending the metal
c) Stretching the metal
d) Shaping the metal into a desired form

Answer: a) Cutting out holes in the metal

Explanation: A piercing die is designed to cut out holes or shapes in the metal sheet or workpiece, allowing for the creation of intricate designs or patterns.

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3. Which metalworking process involves the simultaneous cutting and bending of a metal sheet to create a desired shape?

a) Forging
b) Shearing
c) Compound die design
d) Bending

Answer: c) Compound die design

Explanation: Compound die design involves the integration of multiple cutting and bending operations into a single die set, allowing for the simultaneous creation of complex shapes in metal sheets.

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4. What is the primary purpose of a forging die in metalworking?

a) Cutting metal into desired shapes
b) Bending metal sheets
c) Shaping metal through compression
d) Stretching metal into thin sheets

Answer: c) Shaping metal through compression

Explanation: Forging dies are used to shape metal through the application of compressive forces, typically involving heating the metal and then pressing or hammering it into the desired form.

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5. Which metalworking process involves the gradual reduction of the thickness of a metal sheet through repeated passes between two rotating rolls?

a) Extrusion
b) Upset forging
c) Rolling
d) Casting

Answer: c) Rolling

Explanation: Rolling is a metalworking process where a metal sheet is gradually reduced in thickness by passing it between two rotating rolls. This process is commonly used in the production of sheets, plates, and structural shapes.

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6. In drop forging, what type of force is typically used to shape the metal?

a) Tensile force
b) Compressive force

c) Shearing force
d) Torque

Answer: b) Compressive force

Explanation: Drop forging involves shaping metal through the application of compressive forces, typically achieved by dropping a heavy hammer or ram onto the workpiece.

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7. What is the main advantage of using a compound die in metalworking?

a) Reduced manufacturing costs
b) Increased production speed
c) Improved accuracy of the finished part
d) Ability to create complex shapes in a single operation

Answer: d) Ability to create complex shapes in a single operation

Explanation: Compound dies allow for the integration of multiple cutting and forming operations into a single die set, which enables the creation of complex shapes with high precision and efficiency.

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8. Which metalworking process involves the cutting of metal using a tool with two sharp

edges, one above and one below the workpiece?

a) Extrusion
b) Shearing
c) Blanking
d) Bending

Answer: b) Shearing

Explanation: Shearing is a metalworking process where a tool with two sharp edges, one above and one below the workpiece, is used to cut the metal by applying a shearing force along a predetermined line.

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9. What is the primary function of a bending die in metalworking?

a) Cutting out holes in the metal
b) Shaping the metal through compression
c) Bending the metal into a desired angle or curve
d) Stretching the metal into thin sheets

Answer: c) Bending the metal into a desired angle or curve

Explanation: Bending dies are used to deform metal sheets or workpieces by bending them into specific angles or curves, typically by applying compressive forces at predetermined locations.

10. In metalworking, what is the purpose of a roll press?

a) To shape metal using compressive forces
b) To cut metal into desired shapes
c) To extrude metal through a die
d) To join metal pieces together

Answer: a) To shape metal using compressive forces

Explanation: A roll press is a machine used in metalworking to shape metal by applying compressive forces through the use of rotating rolls. It is commonly used in rolling processes to reduce the thickness of metal sheets or to create specific shapes.

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