1. Which type of molding process typically utilizes a mold with two halves that are brought together under high pressure to form the final product?

a) Injection molding
b) Compression molding
c) Blow molding
d) Transfer molding

Answer: b) Compression molding
Explanation: Compression molding involves placing a pre-measured amount of material into a mold cavity and then applying pressure to compress the material into the desired shape.

2. Which molding process involves forcing molten material into a mold cavity under high pressure to create intricate shapes and precise dimensions?

a) Injection molding
b) Compression molding
c) Blow molding
d) Transfer molding

Answer: a) Injection molding
Explanation: Injection molding is known for its ability to produce complex and detailed parts with high accuracy by injecting molten material into a mold cavity at high pressure.

3. What type of mold is typically used in transfer molding?

a) Two-part mold
b) Split mold

c) Closed mold
d) Open mold

Answer: c) Closed mold
Explanation: In transfer molding, a closed mold is used where the material is placed into a chamber and then forced into the mold cavity under pressure.

4. Which molding process is commonly used for creating hollow plastic parts such as bottles and containers?

a) Injection molding
b) Compression molding
c) Blow molding
d) Transfer molding

Answer: c) Blow molding
Explanation: Blow molding is specifically designed for creating hollow plastic parts by inflating a heated plastic tube (parison) inside a mold cavity.

5. In compression molding, what role does pressure play in shaping the final product?

a) It melts the material
b) It compresses the material into the desired shape
c) It injects the material into the mold
d) It cools the material

Answer: b) It compresses the material into the desired shape
Explanation: Pressure is applied to compress the material into the mold cavity, shaping it into

the desired form in compression molding.

6. Which molding process is best suited for low to medium volume production runs?

a) Injection molding
b) Compression molding
c) Blow molding
d) Transfer molding

Answer: b) Compression molding
Explanation: Compression molding is often preferred for low to medium volume production runs due to its simplicity and cost-effectiveness.

7. What is a common material used in compression molding for rubber parts?

a) Polyethylene
b) Silicone
c) Polypropylene
d) Polystyrene

Answer: b) Silicone
Explanation: Silicone is commonly used in compression molding for rubber parts due to its flexibility, durability, and resistance to heat and chemicals.

8. Which molding process involves transferring material from a preform into a mold cavity under pressure?

a) Injection molding

b) Compression molding
c) Blow molding
d) Transfer molding

Answer: d) Transfer molding
Explanation: Transfer molding involves transferring material from a preform into a mold cavity under pressure, typically using a plunger or piston.

9. Which molding process is suitable for producing parts with intricate details and thin walls?

a) Injection molding
b) Compression molding
c) Blow molding
d) Transfer molding

Answer: a) Injection molding
Explanation: Injection molding is well-suited for producing parts with intricate details and thin walls due to its ability to inject molten material into precise mold cavities.

10. What is a key advantage of blow molding in comparison to other molding processes?

a) High production speed
b) Low initial tooling cost
c) Ability to produce complex shapes
d) Minimal material waste

Answer: d) Minimal material waste
Explanation: Blow molding typically results in minimal material waste since it only uses as

much material as necessary to form the desired shape, making it an efficient process.

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