

1. Watch the video “What Is 3D Printing and How Does It Work?” and select the correct answer.

1. What is the main process involved in 3D printing technology?

- a) Subtractive manufacturing
- b) Additive manufacturing
- c) Sculpting and molding
- d) Forging

2. How does additive manufacturing differ from standard means like forging, molding, and sculpting?

- a) It is slower and more expensive
- b) It requires more materials
- c) It involves subtracting material layer by layer
- d) It is faster and more cost-efficient

3. What is the first step in the 3D printing process?

- a) Sending the design to the printer
- b) Creating a blueprint of the object
- c) Melting the material
- d) Testing biomaterials for regenerative medicine

4. What kind of material is commonly used in 3D printing?

- a) Metal
- b) Glass
- c) Plastic
- d) Wood

5. In what way is 3D printing technology being applied in the medical field?

- a) Printing large-scale structures for hospitals
- b) Creating intricate treats for patients
- c) Testing biomaterials for regenerative medicine
- d) Printing tools for surgeries

6. What recent achievement in 3D printing is mentioned in the text?

- a) Printing a giant sculpture
- b) Printing houses in China
- c) Printing organs for transplants
- d) Printing medical tools

7. Where can designers find 3D models for printing?

- a) Blender
- b) Thingiverse and Shapeways
- c) MakerBot Replicator Two
- d) Mashable's latest coverage

8. How is the material deposited during the 3D printing process?

- a) By subtracting layers
- b) By molding the material
- c) By adding it layer by layer
- d) By melting it directly onto the plate

9. What is mentioned as an application of 3D printing in the food industry?

- a) Printing tools for chefs
- b) Printing intricate treats
- c) Printing large-scale food structures
- d) Printing edible plates

10. What is the advantage of using renewable bioplastic in some 3D printers?

- a) It is cheaper
- b) It is faster
- c) It is environmentally friendly
- d) It is more colorful