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Continuing Education Course #481
3D Printing for Engineers

1. Which of the following is not a benefit of 3D printing?

- a. Minimal material waste
- b. Rapid manufacturing
- c. Time savings
- d. Complex geometry costs more to print
- e. No expensive tooling

2. In which year was the SLA printing process patented?

- a. 1986
- b. 1968
- c. 1977
- d. 1998
- e. 2004

3. In 2003, which of these organs was the first to be printed?

- a. Heart
- b. Liver
- c. Kidney
- d. Gallbladder
- e. Eye

4. True or False: In 2014, the first object was 3D printed on the moon by NASA astronauts.

- a. False
- b. True

5. Hygroscopic means...

- a. Water repellent
- b. Water absorbing
- c. Waterproof
- d. Non-magnetic
- e. Liquid under high pressure

6. Which file type is commonly used by 3D printers?

- a. DXF
- b. SLDPRP
- c. DWG
- d. PLA
- e. STL

7. Which is the appropriate order of operations for printing a 3D part?

- a. Design, 3D model, printing, slicing
- b. Printing, slicing, scanning, 3D model
- c. Slicing, design, 3D model, printing
- d. 3D model, slicing, scanning, post-processing
- e. Design, 3D model, slicing, printing, post-processing

8. Which of the following processes uses compacted powdered materials and fuses them to create a part?

- a. Laser Sintering
- b. Stereolithography
- c. Digital Light Printing
- d. Fused Deposition Modeling
- e. Selective Deposition Lamination

9. The print material used in Selective Deposition Lamination is...

- a. PLA
- b. Powdered Nylon
- c. PMMA
- d. Liquid Urethane
- e. Copy Paper

10. What feature is nylon most known for?

- a. Tensile Strength
- b. Transparency
- c. Water Solubility
- d. Density
- e. Durability

11. Which of the following materials is water soluble?

- a. ABS
- b. PMMA
- c. PLA
- d. PVA
- e. PETG

12. Which is true regarding ceramic 3D printing?

- a. Ceramics require post-processing.
- b. Printing clay takes much longer than other materials.
- c. Ceramics cannot be modified after printing.
- d. Ceramic parts can be used as replacement rubber parts.

13. Biomaterials and medical 3D prints are commonly being used in all of these ways except...

- a. Prosthetics
- b. Physician assisted suicide
- c. Custom dental products
- d. Hearing aids
- e. Implants

14. True or False: Printing concrete increases waste but lowers overall project cost.

- a. True
- b. False

15. Which of the following is false?

- a. 3D printed mashed potatoes is a real thing.
- b. Although it is possible to print other metals at this time, gold has yet to be 3D printed.
- c. Astronauts on board the ISS could be eating 3D printed food right now.
- d. Printed wood parts have artificial digital grain patterns.
- e. Doctors use 3D prints to consult with their patients.

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