



PRAGATI ENGINEERING COLLEGE

(AUTONOMOUS)

DEPARTMENT OF MECHANICAL ENGINEERING

Academic year: 2025-26

Date: 20-01-2026

CIRCULAR

Additive Manufacturing Club of Mechanical Engineering Department in association with Career Guidance Cell is organizing a Quiz to the Mechanical Engineering students on 22nd January 2026. The title is "*Quiz on Additive Manufacturing Materials*".

Event : Quiz.

Date of the Event : 22nd January 2026.

Venue : Online.

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2. **Departmental file.**
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PRAGATI ENGINEERING COLLEGE
(AUTONOMOUS)
INDUSTRY 4.0 CLUBS

ADDITIVE MANUFACTURING CLUB
ORGANISED BY DEPARTMENT OF MECHANICAL ENGINEERING IN ASSOCIATION
WITH
CAREER GUIDANCE CELL

Quiz on Additive Manufacturing Materials

<https://forms.gle/nQYneTN6Xrn3AuN9A>

VENUE: Online
DATE: 22nd January 2026
TIME: 10:00 AM Onwards



FACULTY COORDINATOR

Mr. P. Ram Prasad
Assistant Professor
Mechanical Engineering Department

STUDENT COORDINATOR

Mr. P.Eswar Prasanth (23A31A0341)
Mechanical Engineering Department

QUIZ ON ADDITIVE MANUFACTURING MATERIALS

ADDITIVE MANUFACTURING CLUB

* Indicates required question

1. Which of the following is the primary raw material used in Fused Deposition Modeling (FDM)? *

Mark only one oval.

- Liquid photopolymer resin
- Metal powder
- Thermoplastic filament
- Ceramic slurry

2. Stereolithography (SLA) processes typically utilize which type of material? *

Mark only one oval.

- Thermoplastic pellets
- Liquid photopolymer resin
- Metal wire
- Sand and binder

3. Which material is commonly associated with Selective Laser Sintering (SLS)? *

Mark only one oval.

- ABS filament
- UV-curable resin
- Copper wire
- Nylon (Polyamide) powder

4. In the Binder Jetting process, what is the role of the liquid binder? *

Mark only one oval.

- It acts as a coolant for the laser.
- It provides the final color to the part.
- It selectively joins powder particles together.
- It melts the material into a solid state.

5. Which of the following materials is NOT typically used in 3D printing? *

Mark only one oval.

- PLA
- Titanium
- PVC
- ABS

6. What is the primary material form used in Electron Beam Melting (EBM)? *

Mark only one oval.

- Solid sheets
- Metal powder
- Molten plastic
- Liquid resin

7. Laminated Object Manufacturing (LOM) primarily uses which of the following * as a building medium?

Mark only one oval.

- Metal powders
- Adhesive-coated paper or plastic sheets
- Photocurable polymers
- Ceramic filaments

8. Which AM material category is most suitable for high-detail jewelry and * dental applications?

Mark only one oval.

- Metal filaments
- Photopolymers (Vat Polymerization)
- Wood-based composites
- Sand powders

9. **What is the purpose of "support material" in complex additive manufacturing * geometries?**

Mark only one oval.

- To enhance the final mechanical strength of the part.
- To hold up overhanging features during the build process
- To reduce the overall amount of primary material used
- To provide a protective coating against oxidation.

10. **Hot Isostatic Pressing (HIP) is a post-processing step often used for metal * AM parts to:**

Mark only one oval.

- Increase the surface roughness.
- Change the color of the part.
- Reduce porosity and increase density.
- Dissolve support structures.

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DEPARTMENT OF MECHANICAL ENGINEERING

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