



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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PRAGATI ENGINEERING COLLEGE

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INDUSTRY 4.0 CLUBS

Learning is Supreme Duty

ADDITIVE MANUFACTURING CLUB

ORGANISED BY DEPARTMENT OF MECHANICAL ENGINEERING IN ASSOCIATION

WITH

CAREER GUIDANCE CELL

Quiz on Additive Manufacturing Materials

<https://forms.gle/nQYneTN6Xrn3AuN9A>

FACULTY COORDINATOR

Mr. P. Ram Prasad

Assistant Professor

Mechanical Engineering Department

VENUE: Online

DATE: 22nd January 2026

TIME: 10:00 AM Onwards

STUDENT COORDINATOR

Mr. P.ESwar Prasanth (23A31A0341)

Mechanical Engineering Department



QUIZ ON ADDITIVE MANUFACTURING **MATERILAS**

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 filamen
- ☐ 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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5	23A31A0304	RENUKA VIJAYA DURGA RUTTALA
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27	23A31A0350	VALLABHASETTI VEERA VENKATA SATYANARAYANA
28	23A31A0339	POTHU CHARLES STANLIN
29	23A31A0352	VINTI VEERABHADRA TRINATH
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