

TEAM DSR

Objective Questions For 3-D Printing & Design

1. Which of the following is typically cheapest type of 3-d Printer ?
 - a) **FDM**
 - b) SLA
 - c) Power-Based
 - d) SLM
2. SLA printing uses a plastic strand that's pushed through a heated nozzle.
 - a) True
 - b) **False**
3. 3D printing Technology is expending and is now able to print metal parts.
 - a) **True**
 - b) False
4. Which of the following is typically the most expensive type of 3d printer ?
 - a) SLA
 - b) **SLM**
 - c) FDM
 - d) None of these
5. FDM is stand for Fused Deposition Modelling
 - a) **True**
 - b) False

6. Which type of printer uses an enclosed build area ?
- a) **SLA**
 - b) SLM
 - c) MDS
 - d) FDM
7. What printer melts metal ?
- a) SLS
 - b) **SLM**
 - c) SLA
 - d) FDM
8. SLA printer package material is in a
- a) Chain
 - b) Spool
 - c) **Catridge**
 - d) None of the above
9. Which type of 3D printer uses a pool of resin to create the solid parts
- a) FDM
 - b) **SLA**
 - c) SNL
 - d) None of the Above
10. What material is not used in 3d printing
- a) Nylon
 - b) ABS
 - c) PLA
 - d) **PVC**

11. Which of the following does NOT influence how refined the 3D printer part will be ?
- a) Layer Thickness
 - b) Using support material
 - c) Part Orientation
 - d) **All of the above**
12. Which file type is most commonly exported from CAD software.
- a) SLDRT
 - b) JPG
 - c) **STL**
 - d) X3G
13. FDM build plates are prepared by
- a) Putting hair spray on it
 - b) Putting layer of painters tape on it
 - c) Putting glue stick layer on it
 - d) **All of the above**
14. What does SLS stand for ?
- a) **Selective laser sintering**
 - b) Selective lithography solution
 - c) Separated light sintering
 - d) None of these
15. The first step in each product design process is to and conceptualize the function and appearance of the product....
- a) Summarize
 - b) Imagine
 - c) **Visualize**
 - d) None of these

16. The STL format of the 3D CAD model captures all surfaces of the 3d model by stitching of different sizes on its surface.....
- a) Angles
 - b) Triangles**
 - c) Planes
 - d) All of the above
17. The outside of the triangle is better established by the.....
- a) Left hand rule approach
 - b) Right hand rule approach**
 - c) Thumb rule approach
 - d) None of the above
18. The appropriate value of the required offset would be largely dependent on the of the AM process to be used....
- a) Resolution of accuracy**
 - b) Precision of accuracy
 - c) Threshold
 - d) All of the above
19. The identification of the to be assisted can be made by evaluating the angle of the standard triangle.....
- a) Surface
 - b) Plane
 - c) Face
 - d) Region**
20. Which technology requires a filling pattern to be produced within the enclosed boundary ?
- a) Binder jetting
 - b) Material extrusion**
 - c) Vat polymerization
 - d) None of the above

21. Stainless Steel is printed by fusion of.....
- a) Sterolithography
 - b) Laser sintering**
 - c) Material jetting
 - d) None of the above
22. SLA has been developed on the basis of
- a) Photopolymerization**
 - b) Material jetting
 - c) Drop on demand
 - d) None of the above
23. The sintering temperature of the printed ceramic component can affect the fraction of the metal phase.....
- a) Viscosity & gravity
 - b) Thickness & length
 - c) Density & Volume**
 - d) All of the above
24. The 3d printing of ceramics was first documented by MARCUS et al. and Sachs in
- a) 1990s**
 - b) 1980s
 - c) 1970s
 - d) 1960s
25. Parts produced using a 3d printer must be designed using some kind of
- a) CATIA
 - b) ProE
 - c) CAD**
 - d) Manual Design