Sample Puzzle Questions

1. From following, the alternative name for RP is
 (A) Additive Manufacturing (B) Layer Manufacturing (C) Direct CAD Manufacturing (D) All of the above
2. Which of the following is not Liquid-based RP system?
 (A) Stereolithography Apparatus (SLA) (B) Laminated Object Manufacturing (LOM) (C) Solid Ground Curing (SGC) (D) Solid Object Ultraviolet-Laser Printer (SOUP)
3. Which of the following is not subtractive process?
 (A) Milling (B) Stereo-lithography (C) Sawing (D) EDM 4. Choose the correct sequence to generate prototype.
 (A) 3D CAD data - CAD solid model - STL file - RP prototype (B) CAD solid model - 3D CAD data - RP prototype - STL file (C) STL file - 3D CAD data - CAD solid model - RP prototype (D) 3D CAD data - STL file - CAD solid model - RP prototype 5.Full form of STL is
 (A) Straight-lithography (B) Streto-lithography (C) Stereo-lithography (D) Straight-lipsography 6. What is the full name of SLS?
 (A) Selective Laser Simulator (B) Sintering Laser Simulator (C) Selective Laser Sintering (D) Stereolithography Laser Sintering
7. Process of converting STL file model in to layers is calledin RP.
 (A) chopping (B) slicing (C) cutting (D) trimming 8. Which of the following aspects is mainly concerned with molding the final shape around the basic skeleton? Functional aspect Operational aspect Aesthetic aspect
None of these

9. The STL files translate the part geometry from a CAD system to
(A) CNC machine (B) CMM machine (C) RP machine (D) CAPP machine 10. In the process, one starts with a single block of solid material larger than the final size of the desired object and material is removed until the desired shape is reached.
(A) Subtractive process(B) Additive process(C) Formative process(D) All of above
11. Which of the following addresses the need to design a product for safety? Soft-Hard Review Effect Analysis Experimental design None of these
12. Full form of FDM is
 (A) Fixed Development Modelling (B) Fusion Development Modelling (C) Fused Deposition Modelling (D) Focused Deposition Modelling
13. The process of obtaining a geometric CAD model from 3D points acquired by scanning/digitizing existing parts/products is best known as: Forward Engineering Backward Engineering Reverse Engineering Product Engineering
14. In the entire reverse engineering process for product design, which one is the first step?
 (A) CAD model updating (B) CAD modeling (C) Data pre-processing (D) Data capturing 15. Which of the following RP system is not developed by 3D systems?
 (A) Selective Laser Sintering (SLS) (B) Multi-Jet Modeling System (MJM) (C) Paper Lamination Technology (PLT) (D) Stereolithography Apparatus (SLA) 16. Which of the following is used as base material in Stereolithography (SLA) process?
(A) Thermoplastics, Metals powders(B) Thermoplastics, Eutectic metals.(C) Photopolymer

(D) Titanium alloys
17. What is the third step in Reverse Engineering?
Digitization of the object Creation of CAD model Prototype None of these 18. Which of the following advantage does not possess by the rapid prototyping process over the traditional prototyping process?
(A) It consumes less time(B) Gives better quality(C) Reduces product launch time(D) It's cheaper
19. Which kind of laser is used to cut the sheets in LOM? Ruby Laser Carbon Dioxide Laser He-Ne Laser None of these 20. STL file format is represented by interaction of
(A) lines and hexagons(B) lines and rectangles(C) lines and triangles(D) lines and circles
21. Which among the following processes, is most important part of product development? Packaging Purchasing Engineering Design Process Marketing 22. Which material can be efficiently used as a support material?
 (A) ABS (B) PLA (C) Nylon (D) INF 23. Which file format cannot be converted into STL file format?
(A) .prt (B) .sld (C) .dwg (D) .stp 24. STL files contains
 (A) mass properties of the model (B) geometrical data (C) drawing data (D) all of the above 25. To meet the customer's demand in today's market, we need:

Rapid Manufacturing Conventional Manufacturing Unconditional Manufacturing None of these
26. Which of the following is least important in design during rapid prototyping?
 (A) Machine size (B) Tolerance (C) Material (D) CAD software 27. Which of the following is not an example of additive manufacturing?
(A) Fused-deposition-modeling(B) Electron beam machining(C) SLS(D) Injection molding
28. Additive manufacturing is generally aprocess. 1D 2D 2.5D 3D
29. Which of the process is available in colors?
(A) SLA(B) FDM(C) MJM(D) 3D Printer30. Which of the following is one of the design process steps?
(A) Build (B) Concept (C) Pre-processing (D) Transfer to machine 31. Direct Tooling is technically equivalent to: Direct Costing Direct Manufacturing Indirect Production None of these 32. Post processing in Fused Deposition Modeling in comparison to Stereolithography
Apparatus is: Lower
Higher
Equivalent
Can't say
33. The cost which takes to build one component with all costs included is known as:
Product Cost
Part Cost

Production Cost
Fixed Cost
34. A field of technology that deals with a combination of real world and the data generated from
computer.
a) ML
b) AI
c) AR
d) IoT
35. Technologies that completely involve a user inside a synthetic environment.
a) AR
b) VR
c) AI
d) ML
36. Technologies that allow the user to see the real world, with virtual objects composited in the
real world.
a) AR
b) VR
c) AI
d) SR
37. Laminated Object Manufacturing (LOM) is developed by
 (A) Stratasys (B) CAM-LEM (C) Kira Corporation (D) Cubic Technologies 38. Which of the following is used as base material in Selective laser sintering (SLS)?
 (A) Photopolymer (B) Thermoplastics, Metal powders (C) Titanium alloys (D) Various materials
39. Which material gives finest surface finish in RP?

(A) ABS (B) PLA (C) Nylon (D) INF 40. In 4D printing, which one is the fourth dimension?

ABS PLA Nylon INF

Time Material Sound Light

(A) (B) (C) (D)