

## Comptia A+

To watch the below video, you need to right click on the Hyperlink just below the highlighted task in red color and select the Open Hyperlink option. It will take you to the YouTube where you can watch the concerned video.

You are required to watch the video and answer the Questions asked below.

You need to type answers in the row indicated with "Ans."

What are the printer technologies?

### Printer technologies

<https://drive.google.com/file/d/147vMgjfbY8UvBXcA6EonRcctqM6dw7pl/view?usp=sharing>

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| 1    | What are the types of printer technologies?  |
| Ans. | Laser, Inkjet, Thermal, Impact, Virtual  |
| 2    | Why laser printer is known as laser printer?   |
| Ans. | the idea was to use lasers to imprint an image onto a copier drum which would then be transferred onto paper           |
| 3    | Are laser printer are fastest?   |
| Ans. | Yes, it use photographic drum which use heated rollers to melt ink and transfer it on the paper                        |
| 4    | Where we use laser printer?  |
| Ans. | Small Businesses, larger workgroups and mid sized offices  |
| 5    | What are the components/parts of laser printer?  |
| Ans. | Printer Controller, Imaging Drum, Primary Corona, Laser Scanning Assembly, Paper Transport Assembly                    |
| 6    | What is primary corona?  |
| Ans. | it is given a high voltage charge which is transferred to the paper which pulls the toner from the photosensitive drum |
| 7    | What is imaging drum?  |
| Ans. | is the heart of the laser printer, it transfer the print image consisting of toner onto the paper                      |
| 8    | What is printer controller?  |
| Ans. | a large circuit board, its like the motherboard of the printer   |
| 9    | What is separate pad?  |
| Ans. | used to push back on the stack of paper to allow only one sheet to be fed at a time                                    |
| 10   | What is fusing assembly?   |

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| Ans. | uses the toner powder onto the page to create a print  |
| 11   | What is duplex assembly?   |
| Ans. | allows us to print both sides of paper   |
| 12   | HVPS stands for?   |
| Ans. | High Voltage Power Supply  |
| 13   | What are the steps of laser printing process?  |
| Ans. | Conditioning, Writing, Developing, Transferring, Fusing, Cleaning  |
| 14   | What do you mean by conditioning phase?  |
| Ans. | applying a charge to the drum unit and the paper as it passes through the corona wire  |
| 15   | What do you mean by writing phase?   |
| Ans. | exposure takes place when a focused laser beam is scanned across the entire drum   |
| 16   | What do you mean by developing phase?  |
| Ans. | after a laser has created an image of the page the developing roller uses a magnet and electrostatic charges to attract toner to itself and then transfer the toner to the areas on the drum that have been exposed to the laser |
| 17   | What do you mean by transferring phase?  |
| Ans. | transfer the toner to the paper, this toner is being placed onto the paper as it's passing by the photosensitive drum and it continues to rotate around  |
| 18   | What do you mean by fusing phase?  |
| Ans. | apply heat and pressure to be able to melt that toner right onto the page itself and there it will sit permanently when it comes out of the printer  |
| 19   | What do you mean by cleaning phase?  |
| Ans. | any remaining static voltage on the paper is dissipated and the drum is exposed to an erase lamp which returns it to a neutral charge  |
| 20   | Where do we use inkjet?  |
| Ans. | home and office printing   |
| 21   | What do you mean by inkjet paper?  |
| Ans. | it produces hard copies of a text document or photo by spraying droplets of ink onto paper   |
| 22   | What are the components of inkjet printer?   |
| Ans. | Cartridge, Print Head, Roller, Feeder, Duplex, Calibration, Carriage and Belt  |
| 23   | What do you mean by print head?  |
| Ans. | a component in a printer that houses ink cartridges  |
| 24   | What do you mean by carriage and belt?   |
| Ans. | used to move the carriage back and forth across the paper  |
| 25   | What do you mean by cartridge?   |

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| Ans. | the component of an inkjet printer that contains the ink to be deposited onto paper during printing       |
| 26   | What do you mean by roller?   |
| Ans. | grab the sheets of paper in the paper tray of your printer and feed them through the machine              |
| 27   | What do you mean by feeder?   |
| Ans. | let you easily copy, scan and fax stacks of pages without manually switching out each page                |
| 28   | What do you mean by duplex?   |
| Ans. | you can print both sides of the paper   |
| 29   | What do you mean by calibration?  |
| Ans. | allows you to properly align the inkjet cartridge nozzles to the paper that you are printing              |
| 30   | Where we use thermal printer?   |
| Ans. | most commonly used to print items such as receipt and shipping labels                                     |
| 31   | What is impact printer?   |
| Ans. | create pictures and figures by hitting a device such as a wheel or a print hammer against an inked ribbon |
| 32   | What is virtual printer?  |
| Ans. | do not print paper, printers create a digital file that is saved to your computer hard drive              |