| 1. | A(n)executes instructions in parallel with the CPU and carries out all of the graphics operations, including modeling, motion, rendering, and display. © GPU |
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| 2. | The GPU along with its dedicated RAM, referred to as memory, is located on a graphics card. video |
| 3. | Animating an object containing thousands of can require billions of arithmetic operations. vertices |
| 4. | Some of the first computer games were created in the early 1970s by college students experimenting after hours to see what the new were capable of doing. Minicomputers |
| 5. | is a term coined in the mid-1960s to describe a computer system that was smaller and less expensive than the unwieldy mainframes of the 1950s and early 60s. Minicomputer |
| 6. | Because of the many technical complexities, the cost of developing a sophisticated can run to tens of millions of dollars and take hundreds or thousands of person-years to design and implement. MMOG |
| 7. | In a MMOG, the virtual world in which the game is played is persistent |
| 8. | The branch of computer graphics that studies methods for creating images at a rate matching that of the real world is called or real-time graphics |
| 9. | In object modeling, once an object's surface is tessellated, information about the polygons is stored in memory in the form of a vertex list |
| 10. | means taking an object stored as a mathematical model and converting it into a fully formed, visually pleasing three-dimensional image. Rendering |
| 11. | Imaging speed is known as the rate. o frame |
| 12. | The software used to log on to a MMOG game server may either be proprietary code purchased from the gaming company or a publicly available program such as a web browser. © client |

| 13. | Extremely high-quality, lifelike images are known by the term animation. photorealistic |
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| 14. | are pre-prepared objects that can be dropped into a frame as is, producing a significant speedup in frame creation. Out-ins |
| 15. | There is a sequence of operations, termed the, which must be completed successfully to produce a realistic three-dimensional image. © graphics pipeline |
| 16. | was the first feature-length film to have its central character generated using animation. King Kong |
| 17. | A video card is connected to the main CPU and memory through a plug-in expansion slot or through the system bus |
| 18. | Both hand-drawn frames and animation are manual techniques that require a great deal of time. stop-motion |
| 19. | All of the following are technical problems that the designers of MMOG must address and solve EXCEPT they are responsible for keeping track of each user's activity to ensure his or her actions do not incorrectly affect the actions of other players |
| | they are responsible for making sure the database can be accessed quickly enough to provide real-time response to user actions |
| | they are responsible for implementing the network protocols to support a vast communications array |
| | they are responsible for ensuring the game's visualizations are not too sophisticated for the user community |
| 20. | Using a CGI technique called, a human animator only needs to produce the first frame, the last frame, and the elapsed time in order for a computer to automatically generate the required intermediate frames called tweeners. elapsed time in order for a computer to automatically generate the required intermediate frames called tweeners. keyframing |
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