Computer Maintenance 1
Module 7 Homework/Study Guide

Define these terms:

1. AGP

2. PCIe

3. Analog

4. Digital

5. RAMDAC

6. VGA

7. DVI-I

8. DVI-D

9. DVI-A

10. HDMI

11. Refresh Rate

12. Additive Color

13. Bit Depth

14. High Color

15. True Color

16. Dot Pitch

17. Aspect Ratio

18. CRT

19. LCD

20. LED

21. Plasma

22.

Bit Depth	Number of Colors and Standard
1	
2	
4	
8	
16	
24	
32	

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Using the specifications, design a computer system for under $1000.

- A metal case with front USB, eSATA, and audio ports

- Ventilation to create positive pressure air flow

- A motherboard capable of supporting all the front panel connections and the required processor, RAM, and peripherals

- Connector for an external hard drive enclosure with a transfer rate of 3Gb/s

- A minimum of a Quad core 3 GHz processor that must sustain a temperature of less than 120ºF while running at 70% capacity

- At last 4GB of Ram running at least 1600 MHz

- At least 1 optical drives capable of playing to latest video/movie technology

- At least 700 GB of hard drive space with a transfer rate of 6 Gb/s

- Dual 1 Gbps internet connections

- At least 5.1 surround sound capable sound card

- A video card with at least 2560 x 1600 resolution @ 40 fps and HDMI ready

- A power supply that will run this system at maximum sustained output for a period of 6 hours

- A 23 inch 16:9 monitor with the latest video connection

- Protect the computer against power surges and brownouts

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Item	Quantity	Make	Model	Amperage	Cost
Case					
Motherboard					
Processor					
Memory					
Optical Drives					
Hard Drive					
Video Card					
Power Supply					
Monitor					
Total					