

# PRACTICAL 1

A	Power supply	Converts standard socket voltage into smaller voltage that pc components can handle
B	Hard Drive	Stores data and is non-volatile
C	CPU Fan	Cools the CPU by dissipating heat from the CPU through the fins out into the atmosphere
D	Central Processing Unit	undertakes all calculations using switches that are either ON or OFF.
E	Graphics Processing Unit	Similar to CPU undertakes matrix based calculations in order to display 3D models in X, Y, Z axis.
F	Random Access Memory	Stores data that is used regularly by the CPU. This is volatile memory storage.

ACER Concept D CT300-51A

<del>PART B</del> <del>COMPONENTS</del> <del>PACKAGE</del>		PRE-ASSEMBLED: <del>COMPONENTS</del> <del>PACKAGE</del>	
CPU	<del>Intel Core i5-10400F</del>	Intel Core i5-10400F	
RAM	Corsair Vengeance LPX 16GB	Corsair Vengeance LPX 16GB	
HARDWARE	Western Digital Caviar-blue 1TB 7200RPM	Western Digital Caviar-blue 1TB	
	Samsung 980 Pro 1TB	Samsung 980 Pro 1TB	
Keyboard	Corsair K55 RGB	Corsair K55 RGB	
Mouse	Razer Deathadder V2	Razer Deathadder V2	
MONITOR	MSI Optix G261 23.8" 1920x1080	MSI Optix G261 23.8" 1920x1080	
SPEAKER	Logitech Z200 10W 2.0	Logitech Z200 10W 2.0	
NETWORK AD	TP Link TL-WN881ND 802.11a/b/g/n	TP Link TL-WN881ND 802.11a/b/g/n	
OS	Windows 10 Home	Windows 10 Home	
TOTAL COST	\$1362.51	\$2039.00	



### PART C

option B definitely has a stronger CPU clocking in @ 3.2 GHz. Option A's CPU would be sufficient for half-life but would not run fortnite and would struggle with Minecraft. Option B has more RAM meaning it can load these games faster and storage on B is way more with 1TB vs 320 GB on option A. with more RAM on option B they can browse sites faster and keep more tabs open in the background without much of a performance drop. Option B has a larger monitor ~~which is better~~ (bigger the better). Option B also has wireless keyboard and mouse which is easier to handle and keep the setup more tidy as there are less cabling, however there is latency to consider with wireless, but shouldn't be much of an issue for casual gaming. In conclusion option B is my recommendation.

Recommended intel i7-12700h

8 GB (minimum) recommend 16 GB ddr4 (just use)

1TB ~~SSD~~ HDD

100 GB SSD for Operating Sys

RGB ~~keyboard~~ <sup>strategies</sup> keyboard

Gaming mouse

144 Hz monitor 1080p

any speaker

~~any~~ wired LAN network adapter

GPU about 1050 Ti

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