Memory Systems Test

1.	Give four factors that influence the selection of an appropriate memory technology [4]
2.	Explain the 'designer's dilemma' for memory systems [3]
3.	Explain, using a diagram, the memory hierarchy [8]
4.	Explain the role of cache memory [3]
5.	How can cache memory exploit spatial locality? [3]
6.	How can cache memory exploit temporal locality? [2]
7.	Explain, using a worked example, how a parity bit can be used to detect errors. You should state the types of error that your scheme is capable of detecting and correcting. [6]

8. Explain, using a worked example, how error correcting codes can use bit- and column-parity to detect and correct errors. You should state the types of error that your scheme is capable of detecting and correcting. - [8]

Answers: See lecture slides.