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## HSRT HEALTH SCIENCE REASONING TEST 2024 | ACTUAL EXAM LATEST UPDATE 2024 | ACCURATE AND VERIFIED

When were the twins the same? When were they different? - **CORRECT ANSWER** The twins were the same until they were teenagers, from there on different

What are the three factors hypothesized that contribute to an individual's health and well-being? - **CORRECT ANSWER** Nurture- based on your lifestyle and environment including diet, rearing, and education

Nature- Your genes, eye color, hair color etc

Epigenetics

Describe and give examples of epigenetics. - **CORRECT ANSWER** Epigenetics- heritable changes in gene expression without changing the DNA sequence

Examples- How genes are weakened or strengthened, immune systems, how to build muscle

What are the implications of epigenetics for medicine. - **CORRECT ANSWER** Appearance of tags can help scientist discover the cause of illness that cannot be explained by DNA or genetic mutations alone, Cancer shown to be linked by different DNA methylation on certain genes

What benefits are there when using a DNA microarray over a genetic marker such as an STR? - **CORRECT ANSWER** Faster and can identify the genes associated with diseased tissue, also tells intensity

Why might a researcher want to know what genes are being expressed in different cell types? - **CORRECT ANSWER** To identify which DNA is active and to see if there is a risk for disease

How might the information from a DNA microarray to be used to develop new drugs to treat disease? - **CORRECT ANSWER** Tell which genes are responsible to that disease

What was the downfall of traditional sampling of an environment? - **CORRECT ANSWER** Only the most abundant species would be isolated and cultured

# Health Sciences Reasoning Test Sample Questions

**J Dewey**



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