**Question 1.**

The size of the hash codes was the only noticeable difference, MD5 was 128 bits (32 hex), SHA1 was 160 bits (40 hex) and SHA256 was 256 bits (64 hex)

**Question 2.**

MD5 = 665bbfec08fe3d23358298657d477db5

SHA1 = 4091127425206d1d3203e1302bac99095654c900

SHA256 = 0cc39a1f2681541decd34c6472000a309cd5f06cf2ba7b814799eec8fde9d269

**Question 3.**

While testing different keys with different lengths, the hash was generated successfully without any problems. So, a key with a fixed size is not needed and that is because

**Question 4.**

HMAC-MD5 = 48c92d8209023ffb970776ae1b8f42ac

HMAC-SHA1 = d5a315387e53df307ad77b74544093309bf93a5e

HMAC-SHA256 = 6752decfaf2485d5e716f4e6bfb7a32e3e031ecbf3251ab0e1286708e4e2d185

**Question 5.**

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**Question 6.**

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