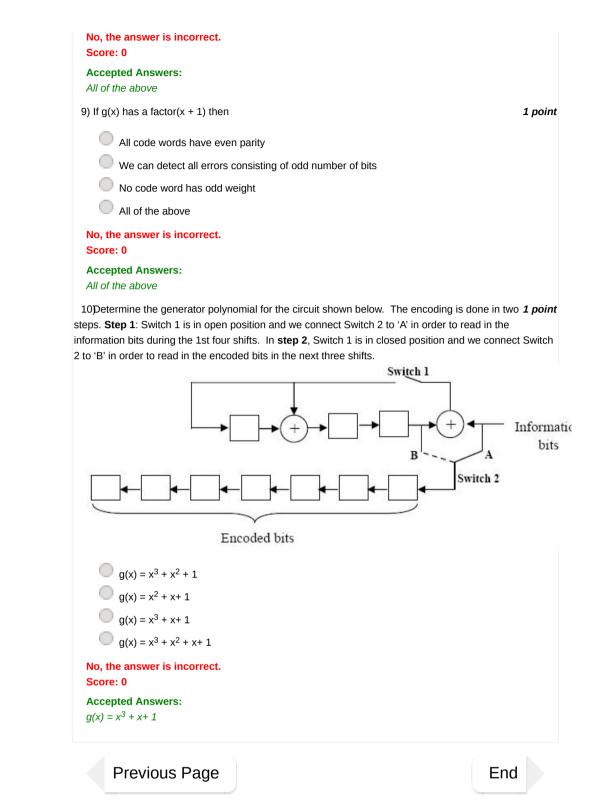


## Information Theory, Coding and Cryptography - $\ldots$

Lectures	$ g(x) = (1+x)(1+x+x^4) $	
	$ = \frac{g(x)}{g(x)} = (1+x)(1+x+x^2+x^3+x^4) $	
	$ g(x) = (1+x)(1+x^3+x^4) $	
	<ul> <li>All of the above</li> </ul>	
	No, the answer is incorrect.	
	Score: 0	
	Accepted Answers:	
	All of the above	0
	5) Consider a binary cyclic code with block length $n = 15$ and the generator polynomial $g(x) = x + x^7 + x^6 + x^4 + 1$ . The parity check polynomial for this is	° 1 point
	$h(x) = x^7 + x^6 + x^4 + 1$	
	$h(x) = x^7 + x^5 + x^3 + 1$	
	$h(x) = x^7 + x^6 + x^2 + 1$	
	$h(x) = x^7 + x^6 + 1$	
	No, the answer is incorrect.	
	Score: 0	
	Accepted Answers: $h(x) = x^7 + x^6 + x^4 + 1$	
	6) The cyclic code given by $g(x) = x^{14} + x^{11} + x^9 + x^5 + x^2 + 1$ is capable of correcting a burst error of up to a length of	1 point
	<ul> <li>5</li> <li>6</li> </ul>	
	No, the answer is incorrect. Score: 0	
	Accepted Answers:	
	5	
	7) The generator polynomial for the Fire code with parameters (35, 27) is	1 point
	$ g(x) = x^8 + x^7 + x^5 + x^2 + x + 1 $	
	$ g(x) = x^8 + x^6 + x^4 + x^3 + x + 1 $	
	$ g(x) = x^7 + x^6 + x^5 + x^2 + x + 1 $	
	$ \bigcirc g(x) = x^8 + x^6 + x^5 + x^3 + x + 1 $	
	No, the answer is incorrect. Score: 0	
	Accepted Answers:	
	$g(x) = x^8 + x^6 + x^5 + x^3 + x + 1$	
	8) Consider a CRC code with the generator polynomialg(x) = $x^{16} + x^{15} + x^2 + 1$ . Which statement is true:	1 point
	(x + 1) is a factor of the generator polynomial	
	$(x^{15} + x + 1)$ is a factor of the generator polynomial	
	<ul> <li>It can detect all odd number of errors</li> </ul>	
	<ul> <li>All of the above</li> </ul>	



Information Theory, Coding and Cryptography - ...