

ENCRYPTION  
TYPES

| SUMMERY                   |         |
|---------------------------|---------|
| Matched Branch:           | 0       |
| Partially Matched Branch: | 15      |
| Mismatched Branch:        | 0       |
| Extra Branch:             | 34      |
| Total Match:              | 26.92 % |
| Concept Match:            | 33.33 % |
| Link. Phr. Match:         | 0.0 %   |
| Misconception:            | 89.47 % |
| Hierarchy Match:          | 28.68 % |

Grade: 22.11%

encompasses

3DES TRIPLE  
DES

AES ADVANCED  
ENCRYPTION  
STANDARD

DES DATA ENCRYPTION  
STANDARD

represented  
by

characterized  
by

illustrated  
by

uses a 64-bit  
block size

underlying  
encryption  
algorithm  
is the same  
as in DES

112 or 168-bit  
key length  
overcomes  
the vulnerability  
to brute force  
attack of  
DES

repeats basic  
DES algorithm  
three times  
using two  
or three unique  
keys

algorithm  
is sluggish  
in software

NIST called  
for new AES  
proposals  
in 1997

selected Rijndael  
in November  
2001 and published  
as FIPS 197

replaced 3DES  
as it was  
not reasonable  
for long term  
use

most widely  
used encryption  
scheme of  
Data Encryption  
Algorithm  
(DEA)

uses 64-bit  
plaintext  
block and  
56-bit key  
to produce  
a 64-bit ciphertext  
block

the most studied  
encryption  
algorithm  
in existence

Electronic  
Frontier Federation  
(EFF) announced  
it had broken  
a DES encryption

including

should have  
a symmetric  
block cipher

should have  
a security  
strength equal  
to or better  
than 3DES

should have  
significantly  
improved efficiency

should have  
a 128-bit  
data block  
and 128/192/256-bit  
keys