

Team Number: C- _____ Team Name: _____

Individual Names: _____

Final Score: ____ /

Codebusters



- Keep this test closed until told to start by the proctor. You will have 50 minutes to complete this test.
- You will have up to 10 minutes to complete the first question. When you get an answer, have one team member raise their hand and the proctor will come to check your answer and record the time. After 10 minutes is up, the first question will be worth 0 points.
- You may take apart this test, but you must turn it in in the correct order.

- Good luck!

1) **(Timed Question) Decrypt:** OR GKX NJW EKOPE TK SW N UMGFOYOFT, GKX

IOQQ MNDW N QKT TK FTXHG: TIK MXPHJWH GWNJF KR TMW ZKFT JNUOHQG

HWDWQKUOPE ROWQH KR LPKIQWHEW TMNT TMWJW OF. FK ZXYM

LPKIQWHEW, OP RNYT, TMNT GKX ZOEMT TMOPL TMNT GKX YNPPKT QWNJP

NQQ KR OT OP RKXJ GWNJF, NPH TJXQG GKX YNPPKT; GKX IOQQ MNDW TK EK

TK EJNHXNTW FYMKKQ TTK! -Richard Feynman

2) **(Caesar) Decrypt:** EJE ZPV NJTT NF?

3) **(Affine) Encrypt:** I AM THE HEART OF DARKNESS. (Key: $a=3$, $b=11$)

4) **(Aristocrat) Decrypt:** YJFV YQWNH AQW FUM QI OD? Keyword: BEG

5) **(Aristocrat) Decrypt:** CEHZ OGZL WT JNEXBCT; YGF'M WCEFB, GK TGN'CC DELL

EM. **Keyword:** HOPE

6) **(Xenocrypt) Decrypt:** VCE ZCIUB GB I RDEN VGCF... **Keyword:** SEONMIUI

7) **(Xenocrypt) Decrypt:** ...FVU B; OP, XI; GEO KEOCHI BU. **Keyword:** ILGI

8) **(Hill)** Given the encryption matrix $\begin{bmatrix} 4 & 1 \\ 11 & 3 \end{bmatrix}$, Calculate the decryption matrix.

9) **(Vignere) Encrypt:** A FIRE OF ANY SIZE; SMALL, MEDIUM, LARGE; ALL BEGIN
WITH A SPARK. **Keyword:** EVOLUTION

10) **(Vignere) Decrypt:** GSCOMA MX XLYB WPNBU NWKI KCI G LZWUSIGBZ QFB KU
BCVTK YOUNIQT ZTBJ.
Keyword: FORGIVE

11) **(Aristocrat) Decrypt:** IF YKVT UZIFTXEU GYISV EWGW EC UEI LZMFR UFF EFY

WPKSCI KVK FRW AV MBI VLRV SVR ZXER; GKXZW MBQ DW HNV HSQ, BVNI'J ORC

AW FMSQ.

Keyword: PROGRESSION

12) **(Baconian) Encrypt:** FORFEIT THE GOOD.

13) **(Baconian) Decrypt:** AABABABAAAAABBAAABBBBAABB AAAABAAAAAAAABAABABA

BABBAABAAABAABBAABBB AAAAAABABBABABB BBAAAABBBABABAA

AABBBAAAAABABABAABAAAAAABBABAAABB ABBAAAAAAABABAAABAA

ABAAABAABB AAAAA AABBAABBBBAABBBAAAABB ABBAABBABAABAA

14) **(Aristocrat) Encrypt:** THE GOOD, THE BAD THE EVIL; AREN'T THEY THE SAME?

Keyword: Blasphemy

15) **(Xenocrypt) Decrypt:** MNF FMJR XNFM GQQ ZCV'WJ LCF. CDBJ FXNBJ; RGPJ GQQ

FMJ SVDBMJE BCVDF. EMCX FMJR XMGF ZCV'WJ LCF. NF'E LCNDL FC HJ G SGNDKVQ

UNIJ, HVF FMJ WNJX GF FMJ JDI NE XCUFM NF. FUVF RJ.

Keyword: CONSTANT