

Regular Expressions

Do NOT write on this test. Record all answers on the bubble sheet. **Closed book. No notes.** Work strictly from memory. No time limit.

True or False: does the entire string match the regular expression?

- 1/1p. Does the string "yx" match the regular expression "(hx)*yx"?
- 2/1p. Does the string "hc" match the regular expression "h*c"?
- 3/1p. Does the string "rrak" match the regular expression "r*|ak"?
- 4/1p. Does the string "c" match the regular expression "c|hg"?
- 5/1p. Does the string "pph" match the regular expression "p+ht*"?
- 6/1p. Does the string "qb" match the regular expression "qa?|b"?
- 7/1p. Does the empty string match the regular expression "c*tf"?
- 8/1p. Does the string "ddfdff" match the regular expression "d+f"?
- 9/1p. Does the string "zqa" match the regular expression "(za)?|qa?|gz"?
- 10/1p. Does the string "kwp" match the regular expression "((kh)*|wp)+"?
- 11/1p. Does the string "s" match the regular expression "y*|an|s"?
- 12/1p. Does the string "xg" match the regular expression "s?|xg+"?
- 13/1p. Does the string "ybfkkkkk" match the regular expression "y*bf(kk?)"?
- 14/1p. Does the string "xsxskn" match the regular expression "xs+|kn(f+)"?
- 15/1p. Does the string "rssxg" match the regular expression "(b?|rs+xg)"?
- 16/1p. Does the string "sdzsdznr" match the regular expression "(sd|z)*(nr)"?
- 17/1p. Does the string "pppdd" match the regular expression "(p*p|d+|qd)*"?
- 18/1p. Does the string "zaaa" match the regular expression "(p*|za*|f)"?
- 19/1p. Does the string "zkkbpzkkbp" match the regular expression "(yg)*st|(zk+bp)+"?
- 20/1p. Does the string "ahrb" match the regular expression "(br)+|ah(rb)*"?

Total points 20.

QR2

Answer Key (points per line)

- | | |
|---------|-------|
| 1 (1). | true |
| 2 (1). | true |
| 3 (1). | false |
| 4 (1). | true |
| 5 (1). | true |
| 6 (1). | false |
| 7 (1). | false |
| 8 (1). | false |
| 9 (1). | false |
| 10 (1). | false |
| 11 (1). | true |
| 12 (1). | true |
| 13 (1). | false |
| 14 (1). | false |
| 15 (1). | true |
| 16 (1). | true |
| 17 (1). | true |
| 18 (1). | true |
| 19 (1). | true |
| 20 (1). | true |

Total points 20.