

**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 "dd" match the regular expression "d\*p"?
- 2/1p. Does the string "pffpa" match the regular expression "(pf)+|pa"?
- 3/1p. Does the string "x" match the regular expression "x\*|db"?
- 4/1p. Does the string "fp" match the regular expression "fp"?
- 5/1p. Does the string "yy" match the regular expression "f?|yy"?
- 6/1p. Does the string "ck" match the regular expression "(ck)+(st)\*"?
- 7/1p. Does the string "rr" match the regular expression "d|r"?
- 8/1p. Does the string "xkxkxgkxkxg" match the regular expression "(xk\*xg)\*"?
- 9/1p. Does the string "dyp" match the regular expression "d|yp"?
- 10/1p. Does the string "atztznd" match the regular expression "aq\*(tz)?nd"?
- 11/1p. Does the string "kfff" match the regular expression "(xx\*|(kf)\*)+"?
- 12/1p. Does the string "tntnbb" match the regular expression "(tn\*bu?)\*"?
- 13/1p. Does the string "gruufuqz" match the regular expression "(gr)+|uu|(fu)+|qz"?
- 14/1p. Does the string "bbz" match the regular expression "(b+|zn|b)+"?
- 15/1p. Does the string "hnruhnruu" match the regular expression "((hn)+(ru)\*)?|u"?
- 16/1p. Does the empty string match the regular expression "h\*gg"?
- 17/1p. Does the string "haxbzgzgnd" match the regular expression "ha+xb(zg)+nd"?
- 18/1p. Does the string "hqbau" match the regular expression "hq(ba)\*au"?
- 19/1p. Does the string "b" match the regular expression "((sd)\*ac)?b|r+"?
- 20/1p. Does the string "gqhq" match the regular expression "(g|(qh)+h\*)\*?"

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Total points 20.

# QR2

**Answer Key** (points per line)

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

Total points 20.