Regular Expressions

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

Matching: Which Perl regular expression commands have what meaning? (If no match mark J.)

(A) `$` (B) `)` (C) `<` (D) `\W` (E) `\e` (F) `\w` (G) `^` (H) `eog` (I) `{`

1/1p. start of string
2/1p. end of group
3/1p. the escape character
4/1p. word character
5/1p. start of multiplier
6/1p. not a word character

Matching: Which Perl regular expression commands have what meaning? (If no match mark J.)

(A) `$` (B) `*` (C) `+` (D) `[` (E) `\B` (F) `\a` (G) `\b` (H) `]` (I) `{`

7/1p. alarm (alert)
8/1p. repeat one or more times
9/1p. start of character class
10/1p. end of string
11/1p. not a word boundary
12/1p. end of character class

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

13/1p. Does the string "ggk" match the regular expression "(gg)?k"?

14/1p. Does the string "akakq" match the regular expression "ak+q"?

15/1p. Does the empty string match the regular expression "rx"?

16/1p. Does the string "fzdp" match the regular expression "(fz)*|dp"?

17/1p. Does the empty string match the regular expression "(qq)*|ut|xx"?

18/1p. Does the string "pa" match the regular expression "g?|pa"?

19/1p. Does the string "ccfn" match the regular expression "c?(fn)?"?

20/1p. Does the string "cycycycy" match the regular expression "((cy)+|cu)?"?

21/1p. Does the string "gxxybybay" match the regular expression "gx+(yb)*ay"?

22/1p. Does the string "wyyh" match the regular expression "(wy)*|h|(qs)+"?

23/1p. Does the string "f" match the regular expression "(xu)*f|x+"?

24/1p. Does the string "aakppwx" match the regular expression "(a?kp)+wx"?

25/1p. Does the string "bga" match the regular expression "uw|bg?|a"?

26/1p. Does the string "nttnttsnttntts" match the regular expression "nt+t*s*"?

27/1p. Does the string "cn" match the regular expression "wh|cn"?

28/1p. Does the string "skwwh" match the regular expression "sk|w+|h?"?

29/1p. Does the string "pkkfkfyyyy" match the regular expression "pk(kf)*(yy)+"?

30/1p. Does the string "rd" match the regular expression "az((sd)?)?|rd"?

Total points 30.

Answer Key (points per line)

1 (1).	G
2 (1).	B
3 (1).	E
4 (1).	F
5 (1).	I
6 (1).	D
7 (1).	F
8 (1).	C
9 (1).	D
10 (1).	A
11 (1).	E
12 (1).	H
13 (1).	true
14 (1).	false
15 (1).	false
16 (1).	false
17 (1).	true
18 (1).	true
19 (1).	false
20 (1).	true
21 (1).	true
22 (1).	false
23 (1).	true
24 (1).	false
25 (1).	false
26 (1).	false
27 (1).	true
28 (1).	false
29 (1).	true
30 (1).	true

Total points 30.