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) \0dd (B) \D (C) \d (D) \f (E) \n (F) \r (G) \xdd (H) ff (I) {

1/1p. form feed
2/1p. digit
3/1p. non-digit
4/1p. carriage return
5/1p. start of multiplier
6/1p. octal dd

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

(A) \ (B) \0 (C) \2 (D) \B (E) \D (F) \S (G) \b (H) \s (I)]

7/1p. end of character class
8/1p. whitespace
9/1p. the null character
10/1p. second back-reference
11/1p. escape the next character
12/1p. word boundary

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

13/1p. Does the regular expression "zb|x" match the string "zb"?

14/1p. Does the regular expression "h*rx" match the string "hrx"?

15/1p. Does the regular expression "(gr)?ft" match the string "ft"?

16/1p. Does the regular expression "bs*|z" match the string "bss"?

17/1p. Does the regular expression "b*ds|tu" match the string "bbds"?

18/1p. Does the regular expression "(nk)+|rs" match the string "nknk"?

19/1p. Does the regular expression "ng*|py*" match the string "ngg"?

20/1p. Does the regular expression "(ay)*f" match the string "ayyf"?

21/1p. Does the regular expression "yg(yx)?" match the empty string?

22/1p. Does the regular expression "d*yr|(hr)+" match the string "ddyr"?

23/1p. Does the regular expression "kw+|ry" match the string "ry"?

24/1p. Does the regular expression "an?|pn|(fx)+" match the string "fx"?

25/1p. Does the regular expression "p?|(ax)?gk" match the string "paxaxgk"?

26/1p. Does the regular expression "(y+k|q+)*" match the string "kqqkqq"?

27/1p. Does the regular expression "((ka)?tn(tr)*)+" match the string "kakatnkakatn"?

28/1p. Does the regular expression "(dt)+|fc*y" match the string "dty"?

29/1p. Does the regular expression "(xu(cg)*(th)?)?" match the string "xuctt"?

30/1p. Does the regular expression "b?|ur+|b?" match the string "burrb"?

Total points 30.

Answer Key (points per line)

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

Total points 30.