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) `\2`   (E) `\f`   (F) `\xdd`   (G) `^`   (H) `ff`   (I) `{`

1/1p.   octal dd
2/1p.   start of string
3/1p.   repeat one or more times
4/1p.   start of character class
5/1p.   form feed
6/1p.   second back-reference

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

(A) `$`   (B) `C-X`   (C) `\D`   (D) `\cX`   (E) `\d`   (F) `\n`   (G) `\r`   (H) `]`   (I) `^`

 7/1p.   end of character class
 8/1p.   newline
 9/1p.   carriage return
10/1p.   non-digit
11/1p.   control X
12/1p.   end of string

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

13/1p.   Does the regular expression "`(ws)+|k`" match the string "`w`"?

14/1p.   Does the regular expression "`x*hc`" match the string "`xxhc`"?

15/1p.   Does the regular expression "`wg?cp`" match the string "`wggcp`"?

16/1p.   Does the regular expression "`n+|gr`" match the empty string?

17/1p.   Does the regular expression "`(zk)+|yt*`" match the string "`ytt`"?

18/1p.   Does the regular expression "`((yz)+|af)?`" match the string "`a`"?

19/1p.   Does the regular expression "`ad+|dh`" match the string "`addh`"?

20/1p.   Does the regular expression "`(yk)*|rh`" match the string "`ykkrh`"?

21/1p.   Does the regular expression "`uw+fk*`" match the string "`uwwfkk`"?

22/1p.   Does the regular expression "`(sk)?|dy+|kq`" match the string "`sk`"?

23/1p.   Does the regular expression "`c*|s+|fr`" match the string "`fr`"?

24/1p.   Does the regular expression "`a*|n?bw`" match the string "`annbw`"?

25/1p.   Does the regular expression "`(p?|tb|b?)?`" match the string "`p`"?

26/1p.   Does the regular expression "`(kw)+|dw|t+|s`" match the string "`kwkw`"?

27/1p.   Does the regular expression "`((bp)+|z)?(kh)+`" match the string "`bpkh`"?

28/1p.   Does the regular expression "`b+dp?`" match the string "`bdp`"?

29/1p.   Does the regular expression "`s?|wy(cc)?|w*`" match the string "`s`"?

30/1p.   Does the regular expression "`u+rn(fg)?|q*`" match the string "`urnfgfg`"?

Total points 30.

Answer Key (points per line)

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

Total points 30.