Name:		
PPSN:		



Combairle na nDámhachtainí Oreisoideachais agus Oiliúna

Further Education Training and Awards Council

Computer Programming C20013

30th April 2013

10:00 - 12:00

Duration: 2 hours

Instructions:

- 1. Return this exampaper when finished
- 2. Write your exam number on your answer book and on this exam paper

This exam counts for 40% of the module

Computer Programming 2013

CTI Senior College, Clonmel

(a) This program contains 6 errors that will stop it from compiling. List the errors.

6 * 5 marks

```
#!/usr/bin/perl
use strict;
#
my (@sentence, $one, $count, $need)
@sentence=split("-", "each-and-every-part.");
Scount = 0;
foreach $one (@sentence) {
   print "$count $one \n"; }
   $count+;
}
elsif ($count > 10) {
   print 'lotsofwords";
}
```

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6	

(b) There is one error in this code snippet. Mark the error and identify it as either a *syntax* error or a *semantic* error.

5 marks

```
print "Enter a number: ";
$data == <STDIN>;
if ($data > 500) {
   print "Bignum";
}
```

(c) Why is indentation used in computer programs?

5 marks

Question 2. Total 40 marks.

(a) Write a	a while loop that writes out the even numbers from 50 to 10:	10 marks
(b) Write t	the general form of the ifelsifelse statement: 10 ma	rks
	ollowing perl code will compile and run but for any of at least 4 ate the desired output. Why?	reasons will 4 * 5 marks
	#!/usr/bin/perl	4 · 5 marks
	# Convert sample sentence to all lowercase, #	
; ; (<pre>my (\$sentence, \$result, @letters, \$letter); \$sentence = "THIS iS Some SAmPle TeXT."; \$result = ""; @letters = split ("", \$sentance); foreach \$letter (@sentence) { if ((\$letter gt "A") && (\$letter le "Z")) { \$letter = chr(ord(\$letter)+65); }</pre>	
	<pre>\$result = \$result.\$letter;</pre>	_
1	print "\$result\n";	
1		
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Question 3. Total 40 marks.

(a) What screen output is generated by this short program:

10 marks

```
#!/usr/bin/perl printf "%c%c%c%c%c%c%c%c%c%c%c%c%c%c%c%c\n", 35,75,101,101,112,32,73,116,32,83,105,109,112,108,101,35;
```

(b) Indicate the values in each of the variables \$va, \$vb and \$vc after this program finishes:

3 * 10 marks

```
#!/usr/bin/perl
use strict;
my ($num, $va, $vb, $vc);
$num = 0;
$va = $num * 2;
while ($num <= 9) {
    $num=$num+1;
}
$vb = 12;
$vc = $num * 2;
print ("$va, $vb, $vc\n");</pre>
```

Variable	Value	
\$va		
\$vb		
\$vc		

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Question 4. Total 40 marks.

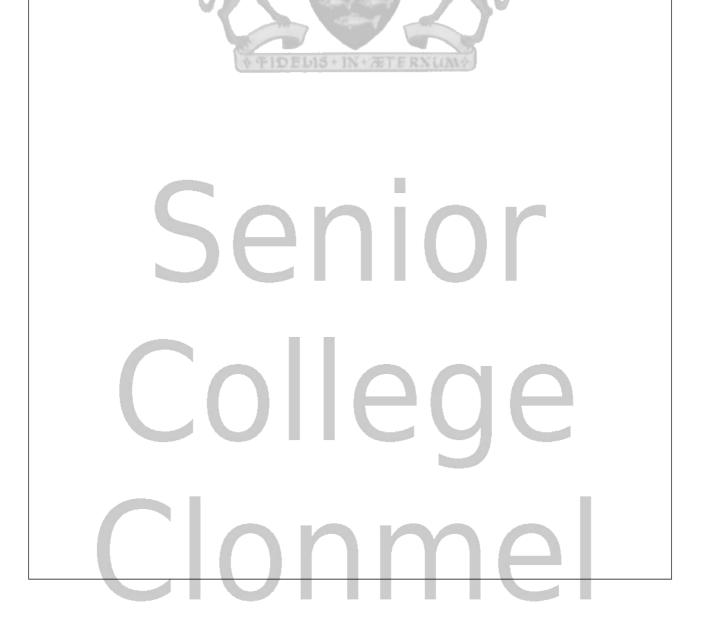
To convert from Acres to Hectares	ha=acres/2.4711
To convert from Hectares to Acres	acres=ha*2.4711

Write a short perl program to:

- 1) Present a simple menu to show conversion options.
- 2) Take all steps to perform the conversion requested.

Include some error checking. Indent and comment as appropriate.

40 marks



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Printable alphanumeric and punctuation characters used in normal document text

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