

(National Council for Vocational Awards)



Computer Programming C20013 May 2010

Duration: Two Hours

Instructions to Candidates:

Answer any three questions

All questions carry equal marks

Answer the questions using the spaces in this exam booklet

Return this question & answer paper when finished

This written exam counts as 40% of the total module

NAME (PRINT):	
PPS NUMBER:	
DATE:	

Question 1. Total 40 marks.

(a) This program contains 4 errors that will stop it from compiling. List the errors.

20 marks

```
!/usr/bin/perl
$myname = "John"
$n = 1;
while ($n <= 4)
{
   print ("$myname, $n\n");
   $n=$n++1;
)</pre>
```

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(b) What are variables used for?	10 marks			
(c) What is the difference between a variable with a nar	ne starting with \$ and a			

variable starting with @? 10 marks

Question 2. Total 40 marks.

(b) Write the general form of the <i>ifelse</i> statement:	10 marks
b) Write the general form of the while statement:	10 marks
c) The following perl code will compile and run but will output. Why?	l not generate the desire
ποραύ. πτις.	20 marks
#!/usr/bin/perl	
# A sample program.	
# This program should write out the let	tters az
# of the alphabet, one on each line.	
\$startvar = 97;	
\$stopvar = 122;	
<pre>\$counter = \$startvar;</pre>	
<pre>while (\$counter <= \$stopvar)</pre>	
{	
# This next line converts & prints th	ne character
<pre>printf ("%c\n", \$counter);</pre>	
\$counter;	
}	

Question 3. Total 40 marks.

(a) Indicate the values in each of the variables a, b and c after this program finishes:

30 marks

```
#!/usr/bin/perl
$num = 0;
$a = $num * 2;
while ($num <= 9)
{
    $num=$num+1;
}
$b = 12;
$c = $num * 2;

print ("$a, $b, $c\n");</pre>
```

Variable	Value
\$a	
\$b	
\$c	

(b) What screen output is generated by this short program: 10 marks

```
#!/usr/bin/perl
printf ("%c%c%c%c%c\n%c%c%c%c%c\n",
68,111,110,39,116,80,97,110,105,99,33);
```

Question 4. Total 40 marks.

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Printable alphanumeric and punctuation characters used in normal document text

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