

#### (National Council for Vocational Awards)



## **Computer Programming C20013**

**Sample Theory Examination 2007** 

# **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 sample written exam counts as 40% of the total module

NAME (PRINT):_	
PPS NUMBER:_	
DATE:	

(a) This pro	ogram contains 4 errors that will stop it from compiling. List the errors.
	20 marks
#!/	usr/bin/pearl
	greeting program!
	nt "Hello, there. What is you name? ";
	nters name= <stdin>&gt;;</stdin>
	nt \nHello, \$punters_name.\nHave a nice day!\n";
P = =	ne (merro, francers_name, (mave a mree aar. (n ,
1	
2	
3	
4	
(b) In all la	nguages variables have to be declared before use. True or False? <i>10 marks</i>
(c) Does a F	Perl array variable commence with a % or a \$ symbol? 10 marks
L	

## Question 2. Total 40 marks.

		e <b>10 marks</b>
Write	e the general form of the <b>foreach</b> statement:	10 marks
_		
The :	following perl code will compile and run but will not gener	ate the desir
	following perl code will compile and run but will not gener Why?	rate the desir
	<pre>Why? #!/usr/bin/perl \$filename="myrecords.dat";</pre>	
	<pre>Why?  #!/usr/bin/perl \$filename="myrecords.dat"; open (MyDataFile, "&lt; \$filename");</pre>	
	<pre>#!/usr/bin/perl \$filename="myrecords.dat"; open (MyDataFile, "&lt; \$filename"); @The_Records = <mydatafile>;</mydatafile></pre>	
	<pre>#!/usr/bin/perl \$filename="myrecords.dat"; open (MyDataFile, "&lt; \$filename"); @The_Records = <mydatafile>; close (MyDataFile);</mydatafile></pre>	
	<pre>#!/usr/bin/perl \$filename="myrecords.dat"; open (MyDataFile, "&lt; \$filename"); @The_Records = <mydatafile>; close (MyDataFile); # This program should write out the</mydatafile></pre>	
	<pre>#!/usr/bin/perl \$filename="myrecords.dat"; open (MyDataFile, "&lt; \$filename"); @The_Records = <mydatafile>; close (MyDataFile); # This program should write out the # contents of a file on numbered lines.</mydatafile></pre>	
	<pre>#!/usr/bin/perl \$filename="myrecords.dat"; open (MyDataFile, "&lt; \$filename"); @The_Records = <mydatafile>; close (MyDataFile); # This program should write out the # contents of a file on numbered lines. \$n=1;</mydatafile></pre>	
	<pre>#!/usr/bin/perl \$filename="myrecords.dat"; open (MyDataFile, "&lt; \$filename"); @The_Records = <mydatafile>; close (MyDataFile); # This program should write out the # contents of a file on numbered lines.</mydatafile></pre>	
	<pre>#!/usr/bin/perl \$filename="myrecords.dat"; open (MyDataFile, "&lt; \$filename"); @The_Records = <mydatafile>; close (MyDataFile); # This program should write out the # contents of a file on numbered lines. \$n=1; foreach \$record (@The_Records)</mydatafile></pre>	
The t	<pre>#!/usr/bin/perl \$filename="myrecords.dat"; open (MyDataFile, "&lt; \$filename"); @The_Records = <mydatafile>; close (MyDataFile); # This program should write out the # contents of a file on numbered lines. \$n=1; foreach \$record (@The_Records) {</mydatafile></pre>	

#### Question 3. Total 40 marks.

(a) Indicate the values in each of the variables x, y and z after this program finishes:

30 marks

```
#!/usr/bin/perl
$num = 0;
$x = 310;
while ($num <= 5)
{
    $num=$num+1;
    $x = $x;
}
$y = $num * $num;
$z = 12 * 6 * $x;

print ("$x, $y, $z\n");</pre>
```

Variable	Value
\$x	
<b>\$y</b>	
\$z	

(b) 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\n",
50,32,51,32,53,32,55,49,49,32,49,51,32,49,55);
```

## Question 4. Total 40 marks.

(a) Write a perl loop to write out every odd number be out the total of the numbers which have been prin	
	30 marks
(b) If you are to use a <b>while</b> loop or a <b>for</b> loop; what	generally is considered to be the
difference between both loop types?	10 marks

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042	*	043	+	044	,	045	_	046	•	047	/
048	0	049	1	050	2	051	3	052	4	053	5
054	6	055	7	056	8	057	9	058	:	059	;
060	<	061	=	062	>	063	?	064	@	065	А
066	В	067	С	068	D	069	E	070	F	071	G
072	Н	073	I	074	J	075	K	076	L	077	М
078	N	079	0	080	Р	081	Q	082	R	083	S
084	Т	085	U	086	V	087	M	088	Χ	089	Y
090	Z	091	[	092	\	093	]	094	^	095	-
096	`	097	а	098	b	099	С	100	d	101	е
102	f	103	g	104	h	105	i	106	j	107	k
108	1	109	m	110	n	111	0	112	р	113	q
114	r	115	S	116	t	117	u	118	V	119	W
120	Х	121	У	122	Z	123	{	124		125	}
126	~	127									

Printable alphanumeric and punctuation characters used in normal document text

Rough-Work Page		

Rough-Work Page			