

(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 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>
```

1	
1	
2	
2	
_	
3	
4	
4	

(b) What are variables used for?	10 marks

(c) What is the difference between a variable v	with a name starting with \$ and a
variable starting with @?	10 marks

Question 2. Total 40 marks.

esire
7
ark

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.

			30 marks
(b) In	man	y languages the control variable for a while loop should	appear in a
	m no	t less than four times. In perl, only 3 occurrences are require	
times.		10 ma	rks
	1		
	3		

		=		032	SP	033	!	034	**	035	#
036	\$	37	.00%	038	&	039	1	040	(041)
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			