

Roll No:				Answer Sheet No:	
Signature of Candid	late:			Signature of Invigilator:	

		Federal Board SSC-II Examination Computer Science Model Question Paper	
		(Curriculum 2009 – NBF)	
		SECTION – A	
T	ime all	ved: 20 minutes	Marks: 12
Note:	the qu	A is compulsory and comprises two pages. All parts of this section are to be ion paper itself. It should be completed in the first 20 minutes and handed uperintendent. Deleting/overwriting is not allowed. Do not use lead pencil.	
Q	.1 Enciro	the correct option i.e. A $/$ B $/$ C $/$ D. All parts carry equal marks.	
	(i)	Which of the following structures allows a choice among various option A. Sequence B. Selection C. Loop D. Decision	ns?
	(ii)	Which program translates high level language into machine language? A. Compiler B. Linker C. Loader D. Debugger	
	(iii)	How many bytes are set aside by the compiler for a variable of type 'in A. 2 B. 3 D. 5	t'?
	(iv)	Which statement is equivalent to " $k = k + a$;"? A. $k+=a$; B. $k=+a$; C. $k++a$; D. $k=a++$;	
	(v)	Which format specifier is used to print or read a floating-point value in totation? A. %d B. %g C. %f D. %e	decimal
	(vi)	Which of the selection structures tests only for equality? A. if statement B. if-else statement C. switch statement D. if-else-if statement	
	(vii)	Which loop should be used when it is required to execute the loop at le A. for loop B. do while loop C. while loop D. nested loop	ast once?
	(viii)	Which of the following gates is also known as inverter? A. OR gate B. NOR gate C. NAND gate D. NOT gate	

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(ix)	Which A. C.	logic gate is represented by the NAND Exclusive-OR	ne funct B. D.	
(x)		is the maximum number of poree variables?	ssible ir	nput combinations in a truth table that
	A.	3	B.	6
	C.	8	D.	9
(xi)		of the following refers to uple can access it?	oading	of Web pages to Web server so that
	A.	Web surfing	B.	Web hosting
	C.	Installing website	D.	Configuring Web pages
(xii)	Which	language is used for creating	Web pa	nges?
	A.	HTML	B.	C language
	C.	URL	D.	Web browser
For Exam	niner's	use only		
		J		Q. No.1: Total Marks: 12
				Marks Obtained:



Federal Board SSC-II Examination Computer Science Model Question Paper (Curriculum 2009 – NBF)

Time allowed: 2.40 hours Total Marks: 43

Note: Sections 'B' and 'C' comprise two pages and questions therein are to be answered on the separately provided Answer Book. Use supplementary answer sheet i.e., sheet B if required. Write your answers neatly and legibly.

SECTION – B (Marks 27)

- Q.2 Attempt any NINE parts from the following. All parts carry equal marks. $(9 \times 3 = 27)$
 - i. Write down an algorithm to find factorial of a given number.
 - ii. Draw a flowchart to print multiplication table of a given number in reverse order.
 - iii. Write three differences between assembly language and HLLs.
 - iv. Evaluate the following expressions:
 - a. 7+5*(3+4)
- b. 100/10/4
- c. 30/7*3-6
- v. Differentiate between getch() and getche() functions.
- vi. Find errors in the following code:

```
intk,a
a=3;
k=1;
while(k<10);
[
printf("\n%f\t%f",k,k*a-1);
k=k+2;
```

vii. Write the following statement using conditional operator.

If
$$(x>y)$$

 $z = (x+y)/3$;
else
 $z = x-5*y$;

- viii. Write a program that reads three numbers and prints their sum, product and average.
- ix. What will be the output of the following code?

x. Construct Truth Table for the following Boolean Expression:

$$F = \overline{x} \overline{y} z + \overline{x} y z + \overline{x} \overline{y}$$

xi. Convert the following for loop into a while loop.

```
int k;
for(k=25; k>0; k=k-3)
printf("\n%d",k);
```

xii. How is a search engine used for searching information on the internet?

xiii. Write the HTML tags for the following?

a. Paragraphb. Headingc. Boldd. Underlinee. Italicf. Font Size

SECTION – C (Marks 16)

Note: Attempt any **TWO** questions.

 $(8 \times 2 = 16)$

Q.3 Simplify the Boolean Function F, using Karnaugh Mapping (K-map).

$$F = xyz + xy\overline{z} + x\overline{yz} + x\overline{yz} + x\overline{yz} + x\overline{yz} + x\overline{yz}$$

Also, construct logic circuit for the simplified expression.

(4+4)

Q.4 Write a program in C language that reads temperature (t) in Celsius and prints a message as given below: (8)

Temperature	Message to print
t>35	It is hot!
t≥20, t≤35	Nice day!
t< 20	It is cold!

Q.5 Describe the tags used for creating a table in HTML. (8)