HANOI UNIVERSITY OF SCIENCE AND TECHNOLOGY

xam []Midterm	iction to Computer Sci [X]final School		CourseID: IT1016 Date: / /
Mark	Signature of i	nstructor	Signature of examiner
t I: Multiple Ch	-		
Example of computer magnetic tape DVD	sequential access memory is	<i>biologist rese</i> A) Real-time so	
memory card hard disk		 B) Business sof C) Engineering Embedded s 	and science software
Computer memory in information or instruct	which user cannot write new ctions is	4 <i>If 12A7C (16)</i> 225174	= X(8) then value of X is
RWM		B) 425174	
RAM		C) 17325	
ROM CMOS		D) 225714	
Which of the followin NurseryLand.Nursery	g is true for the statement: 2.Students = 10;		es data or information temporarily and is directed by the control unit
	ts is nested within the structure	A) Address	
Nursery. The structure Nurser	yLand is nested within the	B) Auxiliary St	-
structure Nursery.	y Lund 15 nosod wrann the	C) Main Memo	ry
The structure Nurser NurseryLand.	y is nested within the structure	Register	
The structure Nurser Students	y is nested within the structure		
include <stdio.h></stdio.h>	the following program?	#include <std< td=""><td>ollowing program doing? lio.h></td></std<>	ollowing program doing? lio.h>
$main() \\ \{ int \ x = 2, \ y = 5; \end{cases}$		main () {int d = 1;	
if (x < y) return (x = x)	(x+y);	do	
else printf ("z1"); printf("z2");		printf("%d\n' while (d <= 9	
}		A) Adding 9 in	tegers
z2		B) Adding integ	gers from 1 to 9
z1z2		· · · ·	ntegers from 1 to 9
Compilation error		D) Displaying i	ntegers from 2 to 10

What will be the output of the following code **10** What is the following function computing? Assume a and b are positive integers. segment? *#include <stdio.h>* int fn(int a, int b) #include<string.h> $\{if(b == 0)\}$ main() { return b; *char s*[10]; else return (a * fn(a, b - 1)); strcpy(s, "abc"); printf("%d %d", strlen(s), sizeof(s)); Output will be 0 always 3 10 B) Output will always be b 33 B) C) Computing ab C) 103 D) Computing a + b D) 10 10 **12** What is the value of the following 8-bit integer after **11** *The second expression* (j - k) *in the following* expression will be evaluated all statements are executed? (i + 5) && (j - k)int x = 1; x = x << 7;if expression (i + 5) is true. x = x >> 7;B) if expression (i + 5) is false. A) 1 C) irrespective of whether (i + 5) is true or false. B) -1 will not be evaluated in any case. D) C) 127 D) Implementation error **13** *If the variables i, j and k are assigned the values 5,3* **14** Different components on the motherboard of a PC and 2 respectively, then the expression i = j + (k + j)processor unit are linked together by sets of parallel = 6) + 7electrical conducting lines. What are these lines called? assigns a value 16 to i A) Buses B) assigns a value 18 to i B) Cables C) assigns a value 20 to i C) Conductors gives an error message D) Connectors **16** *Computer operation in which new word replaced old* **15** Which of these expressions will return true if the input integer v is a power of two? one in a particular memory location is termed as (v | (v + 1)) == 0A) A) save operation B) $(\sim v \& (v-1)) == 0$ B) fetch operation (v | (v - 1)) == 0control operation C (v & (v - 1)) == 0write operation D) 17 **18** The translator program used in assembly language is Information in computer read only memory is stored by called A) engineer Assembler Compiler B) manufacturer B) C) C) Interpreter programmer D) D) Translator user **19** *The first computers were programmed using* **20** *A step-by-step procedure used to solve a problem is* called assembly language A) Algorithm machine language B) Application program source code C) C) Operating system D) object code D) None of the above

The decimal equivalent of the binary number 11100001111 is

- 1806 A)
- 1807
- C) 2806
- D) None of the above

23 Which of the following is the odd one out?

- i = i + 1;A)
- i = +1;
- C) i++;
- D) i += 1;

25 The software for creating and managing databases is

- A) database system
- B) spreadsheet
-) database management system
- D) distributed system

27 Which of the following is a User-defined data type?

- typedef int Boolean A)
- B) typedef struct {int label ;char name[20];} tname
- C) struct {char name[10], int age};
- All of the mentioned

29 Which amongst the following expression uses bitwise operator?

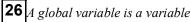
- !a>5 A)
- alb
- C) a!=b
- D) a++
 - Q Answer 1 2 3 4 5 6 7 8 9 10

22 "MAN" stands for

- Maximum Area Network A)
- B) Minimum Area Network
- Main Area Network C)
- Metropolitan Area Network

24 *The format identifier "%x" is used for _____ data* type?

- A) long double
- B) double
- float C)
- int



- declared in the main () function.
- declared in any function other than the main () function.
- C) declared outside the body of every function.
- D) declared any where in the C program.

28 Which of the following are the functions of a operating system

- A) Allocates resources
- B) Monitors Activities
- C) Manages disks and files
- All of the above

30 *Which of the following are used to quickly accept,* store, and transfer data and instructions that are being used immediately by the CPU?

- A) data buses
- B) microprocessors
- registers

ANSWER SHEET

D) ROM chips

Q Answer 11 12 13 14 15 16 17 18 19 20

Q	Answer
21	8 111
22	8
23	8
24	
25	
26	
27	i.
28	Q.
29	8
30	0

A)

- B)