INFORMATION COMMUNICATION TECHNOLOGY

2008 - SECOND TERM

Grade 11

Time: 3 hours

Sel	lect most suitable answer	
1.	The binary equivalent of the de	cimal number 95 ₁₀ is
	(1) 1100001	(2) 1010001
	(3) 1000001	(4) 1011111
2	The hinery equivelent of the U	avedagimal number 2FD is
۷.	The binary equivalent of the H (1) 1111111101	(2) 1011101101
	` /	` '
	(3) 1010101101	(4) 1010101111
3.	The decimal equivalent of the	pinary number 100011 ₂ is
	(1) 91	(2) 35
	(3) 88	(4) 86
4.	The logical expression $X(X - X)$	Y) is equivalent to
	$(1) X^2$	(2) X
	(3) 1	(4) 2X
_		
5.	The logical expression $X+1$	
	(1) 1	(2) X
	(3) X^2	(4) 0
6.	Most Significant Bit (MSB) an	d Least Significant Bit (LSB) of the binary number
	11100110 are	•
	(1) 1 and 1	(2) 0 and 0
	(3) 0 and 1	(4) 1 and 0
7	The number of bits used by the	ASCII coding scheme is
٠.	$(1) 6 \qquad (2) 7$	(3) 8 (4) 9
	$(1) 0 \qquad (2) 7$	(3) 0 (4) 3
8	Select the logical operation con	responding to the following truth table

Input 1	Input 2	Output
0	0	0
0	1	0
1	0	0
1	1	1

(2) OR

9.		You can save a docur		
	(1) File, Save	(2) File, Save as	(3) Click 📓	(4) All above options

(1) AND

(3) NOT

(4) NOR

10. W	hat does GUI stand (1) Graphics Use (3) Graphical Util	Internet	(2) Graphical (4) Granted Uti		
11. W	hat is used to tempo (1) Hard disc	rarily hold data, inst (2) RAM	tructions and resu (3) ROM	alt of procession (4) All	•
12. Th	e binary equivalent	of the Octal number	r 372 ₈ is		
	(1) 10111010	(2) 11101010	(3) 11110010	(4) 1111	11010
13. W	hich of the following (1) 35 ₁₀	g has the least value (2) 1101 ₂	? (3) 27 ₈	((4) 2A ₁₆
of		·	-	he following	
15. No	ot an output device (1) Monitor	(2) Printer	(3) Plotter	(4) Mic	rophone
	hich data type is appicrosoft Access? (1) Text	oropriate to represen (2) Integer	t a telephone nun (3) Memo	(4) B	
17. A	database is a (1) Program for en (2) Collection of 1 (3) Contain names (4) Can store pictu	records of students			
18. N	Microsoft Excel is a (1) Mathematical (3) Word Processi	-		ase Managen itation	nent
19.	Not a peripheral de (1) Mouse	evice (2) System Uni	t (3) Key	board	(4) Monitor
20.	Which type of char(1) Line	rt can you create in a	a MS Excel Sprea (3) Pie	adsheets? (4) Any of	the above
21.	.xls, .mdb and .ppt (1) MS Word, MS (2) MS Word, MS (3) MS Word, MS	wing application soffile extensions? Power point, MS AS Excel, MS Power	Access, MS Excel point, MS Access MS Power point		h respect to .doc,

22. In	Ms word, Shortcut Key for copy (1) Ctrl + C (2) Ctrl + V (3) Ctrl + Z (4) Ctrl + X
23.	Right-Clicking something in Power Point is a (1) Delete the object (2) Opens a shortcut menu listing everything you can do the object (3) Select the object (4) Nothing the right mouse button is there for left handed people
24.	Under which of the following categories is a laptop computer classified ? (1) Microcomputer (2) Minicomputer (3) Mainframe (4) Supercomputer
25.	Speed of microprocessor is usually expressed in (1) GHz (2) Mbps (3) Gigabyte (4) Kilobyte
26.	An advantage of a manual system is (1) Diligence (2) Flexibility (3) Reliability (4) Speed
27.	Which is true (1) A system is a collection of interrelated components. (2) System components work together to perform a specific task (3) System has a boundary (4) All above are true
28.	The system that consists of organized collection of people, procedures, software, databases, and devices used to provide information to decision makers is called (1) Management Information System (2) Artificial Intelligence System (3) Decision Support System (4) Transaction Processing Systems
29.	Identify the three successive phases of the System Development Life Cycle (SDLC) that appear in the correct order (1) Analysis, Design, Testing (2) Design, Software Development, Testing (3) Design, Maintenance, Testing (4) Maintenance, Design, Analysis
30.	Which of the following does not produce computer executable machine code as its output? (1) Compiler (2) Debugger (3) Interpreter (4) Assembler
31.	Private Sub Command1- Click() Dim N As Integer For N = 10 To 0 Step -2 Print N; Next N End Sub The output of the above Visual Basic code is (1) 10,8,6,4,2 (2) 0,2,4,6,8,10 (3) 10,8,6,4,2,0 (4) 8,6,4,2,0
32.	Which operators are used to combine two string variables in Visual Basic? (1) + and * (2) + and & (3) - and & (4) - and *

33.	Which of the following (1) Integer	ng is not a Visu (2) Boolean	al Basic data type? (3) Text	(4) Date
34.	An error in a compute (1) Syntax	er program is ro (2) Bug	eferred to as a (3) Debug	(4) Non of above
35.	What is the output of (1) 6	Print("4" + 2 (2) 42	2) (3) 4	(4) 2
36.	What is the output of (1) False and True (3) False	Print(3 > 5) a	and (10 >= 10) (2) True (4) True and False	
37.	Single Data type cann (1) 80	not store (2) 34.564	(3) -45	(4) "c"
38.	Private sub command Dim A As Integer A = A +1 End Sub Private Sub command Static B As Integer B = B +1 End Sub What are values of var (1) A=1, B=1	d2- Click()		ommand button twice? -2 (4) A=2, B=2
39.	Identify a low level p (1) Visual Basic	orogramming la (2) Java	nguage from the followage (3) Assembly	wing list (4) COBOL
40.	In programming varia (1) Give commands (3) Convert codes	ables are used t	(2) Store val (4) Input Va	

Part II

Answer all questions

- 1. Nimal expects to reduce the damages when using electric water heaters. He think to prepare a bell to ring if the required water level is not there in the jug.
 - a. Write the truth table by considering the following facts.
 - Electricity supplied or not
 - Water level above the margin or not

- b. Develop the Boolean expression using the above truth table
- c. Draw the logic circuit

d. Simplify the following logical expression

(A+B)(A+C)

2. The following is a table from a database of business organization

EMPNO	First	LastName	Designation	Salary	DPT	DateJoined
	Name					
EMP10	Sunil	Perera	Accountant	30,000	Finance	02/01/2003
EMP06	Gayan	Liayanage	Executive	20,000	General	03/01/2001
EMP18	Kumudu	Silva	A.Assistant	15,000	Finance	06/07/2006
EMP20	Anura	Dias	A.Assistant	15,000	Finance	23/06/2002
EMP16	Wimal	Alwis	Executive	20,000	General	15/03/2004

- a. Which field is suitable for the primary key?
- b. Explain why it is suitable for that?
- c. Write suitable data types in MS Access for the following fields
 - a. FirstName

b. Salary

- c. DateJoined
- d. Company wants to get information about employees who had joined before the 1st of January 2005. How to retrieve these information using MS Access?

3. Sri Lanka Electricity Board wants to write a program to prepare the electricity bills for the consumers. Following data is supplied for it.

Meter reading for the last month Meter reading for the this month

No. of Units Charge for one unit 0-90 Rs. 6.00 More than 90 Rs. 10.00

a. Write Pseudo code for the above problem

(b) Draw flowchart to above problem

(c)Draw a sketch of Visual Basic interface using suitable objects

(d)Write suitable Visual Basic codes calculate the electricity bill
(4). W	Vrite short notes on followings Using of computers as educational tool
b.	Advantages of computer based information system
c.	Network Topology
d	Differences between First Generation computers and Fourth Generation computers