INFORMATION COMMUNICATION TECHNOLOGY

2008 - SECOND TERM

Grade 11

Time: 3 hours

| Sel | ect most suitable answer | | | | |
|-----|---|---------------|-----------------------------|-------------------|--|
| 1. | 1. The binary equivalent of the decimal number 95 ₁₀ is (1) 1100001 (2) 1010001 | | | | |
| | (3) 1000001 | | 011111 | | |
| 2 | The hinemy equivelent of the Heyedesimal | ما سیرسا | on 2ED is | | |
| ۷. | The binary equivalent of the Hexadecimal | | | | |
| | (1) 1111111101 | | 011101101 | | |
| | (3) 1010101101 | (4) 1 | 010101111 | | |
| 3. | The decimal equivalent of the binary num | ber 10 | 0011 ₂ is | | |
| | (1) 91 | $(2) \ 3$ | 5 | | |
| | (3) 88 | (4) 8 | 66 | | |
| 4. | The logical expression $X(X+Y)$ is equi | ivalent | to | | |
| | $(1) X^2$ | (2) X | | | |
| | (3) 1 | (4) 2 | X | | |
| | | | | | |
| 5. | The logical expression X+1 is equivalent to | | | | |
| | (1) 1 | (2) X | ζ | | |
| | (3) X^2 | $(4) \ 0$ | | | |
| | | | | | |
| 6. | Most Significant Bit (MSB) and Least Sig | gnificar | nt 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 coo | ding sc | cheme is | | |
| | (1) 6 (2) 7 | (3) 8 | | (4) 9 | |
| 0 | | | 0.11 | | |
| 8. | Select the logical operation corresponding | g to the | tollowing truth | table | |

| Input 1 | Input 2 | Output |
|---------|---------|--------|
| 0 | 0 | 0 |
| 0 | 1 | 0 |
| 1 | 0 | 0 |
| 1 | 1 | 1 |

- (1) AND
- (2) OR
- (3) NOT
- (4) NOR

- 9. In Microsoft Word, You can save a document by
 - (1) File, Save
- (2) File, Save as
- (3) Click
- (4) All above options

| 10. W | hat does GUI stand fo (1) Graphics Use In (3) Graphical Utiliti | ternet | (2) Graphical User Interface(4) Granted Utilities Incoming | | |
|--------|---|--|---|---|--|
| 11. W | That is used to tempora (1) Hard disc (| rily hold data, inst 2) RAM | ructions and result (3) ROM | of processing? (4) All above | |
| 12. Tł | ne binary equivalent of | f the Octal number | 372 ₈ is | | |
| | (1) 10111010 (| 2) 11101010 | (3) 11110010 | (4) 11111010 | |
| 13. W | Thich of the following (1) 35_{10} | has the least value (2) 1101 ₂ | ? (3) 27 ₈ | (4) 2A ₁₆ | |
| of | | be spent on the pr | | nization but a fixed amount following phases decides ment | |
| 15. No | ot an output device (1) Monitor (| 2) Printer | (3) Plotter | (4) Microphone | |
| | Thich data type is approison of the control of the | opriate to represen (2) Integer | t a telephone number (3) Memo | er (e. g. 0112 665701) in (4) Byte | |
| 17. A | database is a (1) Program for ente (2) Collection of rec (3) Contain names o (4) Can store picture | cords f students | | | |
| 18. | Microsoft Excel is a so (1) Mathematical op (3) Word Processing | perations | | Management ion | |
| 19. | Not a peripheral dev (1) Mouse | ice (2) System Uni | t (3) Keybo | ard (4) Monitor | |
| 20. | Which type of chart (1) Line | can you create in a | • | heets? Any of the above | |
| 21. | Which of the follow .xls, .mdb and .ppt fr (1) MS Word, MS I (2) MS Word, MS I (3) MS Word, MS I (4) MS Word, MS A | ile extensions? Power point, MS A Excel, MS Power p Excel, MS Access, | Access, MS Excel point, MS Access MS Power point | order with respect to .doc, | |

| 22. In | Ms word, Shortcut Ke | y for copy | | | |
|--------|---|---------------------------|---------------------------|--|--|
| | (1) Ctrl + C | (2) Ctrl + V | $(3) Ctrl + Z \qquad (4)$ | Y) Ctrl + X | |
| 23. | Right-Clicking somet (1) Delete the object (2) Opens a shortcut (3) Select the object (4) Nothing the right | menu listing e | everything you can d | • | |
| 24. | Under which of the fo (1) Microcomputer | | | _ | |
| 25. | Speed of microproce (1) GHz | essor is usually (2) Mbps | expressed in (3) Gigabyte | (4) Kilobyte | |
| 26. | An advantage of a ma (1) Diligence | • | y (3) Reliability | (4) Speed | |
| 27. | Which is true (1) A system is a col (2) System compone (3) System has a bou (4) All above are true | nts work togetl indary | - | cific task | |
| 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 (3) Design, Maintenance, Testing (4) Maintenance, Design, Analysis | | | | |
| 30. | Which of the following output? (1) Compiler | ng does not pro | _ | eutable machine code as its (4) Assembler | |
| 31. | (1) Compiler | (2) Debugge. | (s) interpreter | (i) Tissellioler | |
| | (1) | (2) | (3) | (4) | |
| 32. | Which operators are u (1) + and * (3) - and & | | and & | es in Visual Basic? | |

- 33. Which of the following is not a pascal data type?
 - (1) Integer
- (2) Boolean
- (3) String
- (4) Date

- 34. An error in a computer program is referred to as a
 - (1) Syntax
- (2) Bug
- (3) Debug
- (4) Non of above

- 35. What is the output of Print("4" + 2)
 - (1) 6
- $(2) \ 42$
- (3) 4
- (4) 2

- 36. What is the output of Print(3 > 5) and (10 >= 10)
 - (1) False and True

(2) True

(3) False

- (4) True and False
- 37. Single Data type cannot store
 - (1) 80
- (2) 34.564
- (3) -45
- (4) "c"

38.



Not a relevant question to your syllabus

- and B after clicking each command button twice? , B=1, (3) A=1, B=2 (4) A=2, B=2
- 39. Identify a low level programming language from the following list
 - (1) Visual Basic
- (2) Java
- (3) Assembly
- (4) COBOL

- 40. In programming variables are used to
 - (1) Give commands

(2) Store values

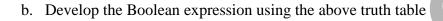
(3) Convert codes

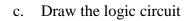
(4) Input Values

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





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

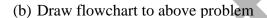
- c. DateJoined
- d. Company wants to get information about employees who had joined before the 1st of January 2005. How to retrieve these information using MS Access?

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



(c)Draw a sketch of User interface for the programe

