1. Introduction to computer

I. Answer the following:
1. What is a computer?
2. What are peripheral devices?
3. Define Data, Information.
4. What do you mean by an algorithm?
5. What is an operating system?
6. What is a lap-top computer?
7. What is mainframe computer?
8. What is digital computer?
9. Write about Slide rule and Napier bone.

II. Detail:
2. Relationship between software and hardware
4. Important features and uses of micro, mini, mainframe and super computer.

III. 3. Computer Organization

1. Write the essentials of the stored program concept.
2. Main function of the central processing unit.
3. Define memory read and memory write operations.
4. What is advantage of EEPROM over EPROM?
5. What is an input device? Give ex.
7. Characteristic of impact and non impact printer.
8. What is the role of ALU?
9. What is control unit?
10. What are registers?
11. What is bus?

II. Detail:

1. Describe in detail the various units of the central processing unit.
2. Explain the working principle of CPU with an example.
3. Briefly explain various types of memory.
4. Explain: mouse, keyboard, line printer, scanner, OMR, OCR, monitor, Barcode reader.
4. working principle of digital circuit

I. Answer the following:
1. What is logic gate?
2. List the fundamental logical gates?
3. Why NAND and NOR gates are called as universal gates?
4. How AND gate can be realized using NOR gate?
5. What is half adder?
6. What is a full adder?
7. What is a combinational circuit?
8. What is a sequential circuit?
9. What is flip flop?

II. Detail:
1. Flip flop construct NOR gate.
2. Explain the steps involved in designing a logic circuit.
3. Explain any 5 logical gates with truth table.

5. Operating System

I. Answer the following:
1. Define an OS.
2. Explain the different roles taken by the OS.
3. Write about SJF and FIFO
4. What is DMA?
5. Write note on User Interface.
6. What is mean by single user and multi user?
7. Types of operating system?
8. Name some of the required features of operating system.

II. Detail:
1. What are the types of security level in OS?
2. Explain the process and memory management.
3. Explain: Resident monitor, DMA, spooling, Multiprogramming, Time sharing, Distributed OS, Fault tolerance.
6. Computer communication

I. Answer the following:
1. What are the reasons for networking?
2. What is TCP?
3. What is the role of ICANN?
4. Explain URL.
5. What is FDDI?
6. What are search engines? Give some example.
8. What is modem?
9. What is web?
10. How data is transmitted in different forms?

II. Detail:
1. List the general types of networks used today. (LAN, MAN, WAN)
2. Explain different network topologies (Ring, bus, star, hybrid, FDDI)
3. What are the transmission modes?

7. An introduction to Windows XP

I. Answer the following:
1. What is Windows XP?
2. Advantages of using Windows XP.
3. What is mouse? different mouse actions.
4. What is desktop? What are the things you see on the desktop?
5. Define: turn off, log off, shutdown with steps
6. What is the use of screen saver?
7. How to start multiple applications?
8. What is clipboard? How is it used?
9. What is clipbook?
10. What is file? and types of files.
11. Two different types of file name.

II. Detail:
1. Control panel and its icons.
2. Different parts of windows.
3. Different kinds of dialog boxes in windows.
4. What is paint? different parts paint window.
5. What is word pad? different parts paint window
6. Explain about calculator.
8. Windows Explorer

I. Answer the following:
1. Different between cut and copy.
2. Run command
3. Files and folders
4. Write short note on file name.
5. Recycle bin and use.
6. Any four winkey combination with use.
7. Rename a group of files.
8. How will you copy files to CD
9. Distinguish between CD-RW and CD-R?
10. How to create a new folder?

II. Detail:
1. Different ways in which you can view information in windows explorer.
2. Describe the different parts of the windows explorer window.
3. What are the special features available in windows XP professional alone?

9. Linux

I. Answer the following:
1. How will you change your current password?
2. What is root directory?
3. How will you logout of linux?
4. What are the rules that you should follow when you change your password?
5. How will you know a hidden and sort file name?
6. How will you know your working directory?
7. What are the essential conditions to remove a directory using rmdir command?
8. How will you create a directory?
9. What is the use of cat command?
10. Distinguish between mv and cp command.
11. Write disadvantage of mount command.
12. What is editor? write its types.
13. Write about more command.

II. Detail:
1. Explain the functions of man.
2. Explain the types of user.
3. Explain ls command and its options.
4. Explain the features of Linux.
10. Problem solving techniques and C programming

I. Answer the following:
1. What is flow chart?
2. What is pseudo code?
3. What is an algorithm?
4. What is walkthrough?
5. Write the relational operator.
6. What is an array? Give an example.
7. Write about Escape sequence.
8. Write the syntax for if and if...else

II. Detail:
1. What is loop? Write the types of loop with syntax.
2. What is entry check loop? Write about for loop with syntax, example.
3. What is entry check loop? Write about while loop with syntax, example.
4. What is exit check loop? Write about do..while loop with syntax, example.
5. Explain about switch with syntax, example.

All the best.....

M.Prabhu.,M.Sc.,B.Ed.,
PG Assistant (computer science )
Muthumari Mat.Hr.Sec.Schl, Thiruthangal.
Ph.No : 8056 8056 90