**IMMACULATE CONCEPTION BOYS – MUKUYU**

**EXAM 1 TERM 3 2018**

**FORM 3**

***COMPUTER STUDIES***

**NAME** **ADM. No**

**INSTRUCTIONS: ANSWER ALL QUESTIONS**

**SECTION A: (40 MARKS)**

* 1. Distinguish between Optical scanners and magnetic ink scanners. (2mks)
  2. Differentiate between hardware and software portability. (2mks)
  3. Explain the difference between digital signal and analog signal in data communication. (2mks)
  4. Give **two** ways in which computers are used in communication industry. (2mks)
  5. Name **two** special purpose memories found either inside or outside the microprocessor. (2mks)
  6. Distinguish between an accumulator and an address register. (2mks)

1. Differentiate between formatting and editing as used in word processing. (2mks)
2. Distinguish between paste board and a printable page as used in D.T.P (2mks)
3. Explain the meaning of the following terms as used in D.T.P. (4mks)
   1. Crop

* 1. Embedded object
  2. Master page
  3. Tool box

1. Describe **two** methods used to secure data in a database. (2mks)
2. Make a clear difference between a website and web portals (2mks)
   1. What is a protocol? (1mk)
   2. Write the following in full: (4mks)

TCP/IP, HTML, HTTP, FTP.

1. Make a clear difference between Log file and Firewall. (2mks)
2. Explain the meaning of the terms below as used in data security and controls. (3mks)
   1. Information security
   2. Fraud
   3. Eavesdropping
3. Explain the importance of control structure in program development. (1mk)
4. Manipulate:
   1. Convert 12510 to binary (3mks)
   2. Convert ABC to Decimal (3mks)
   3. Convert 3748 to hexadecimal (4mks)

**SECTION B: (45MARKS)**

* 1. List **four** stages of data collection (2mks)
  2. Explain **six** functions of database management software. (6mks)
  3. Briefly explain the **seven** main stages of system development in their logical sequence. (7mks)
  4. Differentiate between the following storage media in terms of technology.
     1. Zip disks (1mks)
     2. Jaz disks (1mks)
     3. Laser 120 super disks (1mks)
     4. Optical card (1mks)
     5. Optical tape (1mks)
  5. Explain **four** methods of file organization. State the method of access in each case. (4mks)
  6. Describe the following types of errors experienced during testing. (4mks)
     1. Logical errors
     2. Syntax errors
     3. Semantic errors
     4. Run time errors
  7. Distinguish between a compiler and assembler (2mks)
  8. Explain **two** functions of an operating system. (4mks)
  9. Explain the following terms as used in disk management using operating system:
     1. Disk defragmentation. (2mks)
     2. Disk clean up. (2mks)
  10. What will happen if you attempt to delete a folder while a file contained in it is **Open**? (1mk)
  11. State **two** properties that an operating system displays about a file. (2mks)
  12. Give **four** advantages of storing files in folders. (4mks)