ANNUAL EXAMINATION - 2077

Grade: VIII **Full Marks: 50**
Subject: Computer Science **Pass Marks: 20**
Time: 1 hour and 30 minutes

Attempt all the questions.

Group A: [Fundamentals – 24 Marks]

1. Answer the following questions. [5 X 2 = 10]

a. What is software? Define program.
b. What is meant by generation of computer? List any two unique features of third generation of computers.
c. What is utility software? Define device driver.
d. What is compiler? Define interpreter.
e. Why computer is called diligence machine?

2. Select the correct option. [4 X 0.5 = 2]

a. The text that appears at the bottom of every page in a document is called _____.
   i. Header iii. Footnote
   ii. Footer iv. Endnote
b. Which of the following is not an internal command?
   i. MKDIR ii. DATE
   iii. TREE iv. VER
c. Computers that used microprocessor as CPU components.
   i. First Generation of computers
   ii. Second Generation of computers
   iii. Third Generation of computers
   iv. Fourth Generation of computers
d. 1 Nibble equals to _____.
   i. 1 bit ii. 4 bits
   iii. 8 bits iv. 16 bits

3. **Fill in the blanks.** **[4 X 0.5 = 2]**
   [Digital computer, Interpreter, Analog computer, ABC, hub]
   a. _____ works on continuous signals.
   b. The first electronic digital computer is called _____.
   c. _____ doesn't create the object code.
   d. The small devices with multiple ports are called _____.

4. **Write either True or False.** **[4 X 0.5 = 2]**
   a. Mark-I is the first electro-mechanical computer.
   b. Application software can run without operating system software.
   c. Distributed operating system is a model where distributed applications are running on multiple computers linked by communications.
   d. Secondary memory is not directly accessible to CPU.

5. **Write the full form.** **[4 X 0.5 = 2]**
   SMTP, NOS, UPS, CAI

6. **Write the technical term for the following.** **[4 X 0.5 = 2]**
   a. The process of starting or resetting a computer.
   b. The first commercial computer that could handle both the numbers and the alphabets.
   c. The software designed to solve a specific problem.
   d. A table of contents for a disk.

7. **Convert the following as indicated.** **[2 X 2 = 4]**
   a. $(1001)_2 = (?)_{10}$
   b. $(1001 + 111)_2$

Group B: [ICT, Ethics and Internet – 10 Marks]

1. Answer the following question. [3 X 2 = 6]

a. What is computer virus? List any two symptoms of computer virus
b. What is network topology? Define downloading.
c. What are the benefits of a computer network? List any two.

2. Write the use of following HTML tags. [4 X 0.5 = 2]

a.
b. <p>
c. <hr>
d. <marquee>

3. Match the following. [4 X 0.5 = 2]

Column A	**Column B**
Client	(i) address of particular information on the internet.
URL	(ii) card that physically makes the connection between the computer and the network cable.
NIC	(iii) the process of doing business through Internet.
E-Commerce	(iv) network computer that utilizes the resources of other network computers.
	(v) set of rules for communicating between computers and other network devices.

Group C: [Computer Graphics and Multimedia – 3 Marks]

1. Answer the following questions. [2 X 1.5 = 3]

a. What is the use of lasso tool?
b. What are the elements of multimedia?

Group D: [Computer Programming – 13 Marks]

1. **Answer the following questions.** **[3 X 1 = 3]**
   a. Define algorithm?
   b. What is variable?
   c. What is the purpose of looping?
2. **Write down the output of the following program.** **[2]**

```
CLS
p = 1
WHILE p <= 10
   s = s + p
   p = p + 1
WEND
PRINT "Sum of natural number is"; s
END
```

3. **Correct the errors in the following program.** **[2]**

```
REM to check whether the input number is odd or even.
CLS
INPUT "Enter the number"; A
IF A MOD 2 <> 0 THEN
   DISPLAY "Even Number";
OTHERWISE
   DISPLAY "Odd Number";
ELSE IF
END
```

4. **Write down the QBASIC program.** **[2 X 3 = 6]**
   a. To find the perimeter of a rectangle. [P = 2(L+B)]
   b. To the pattern as below:

```
1
12
123
1234
12345
```

Best Wishes!!!