**Computer Science (Optional II)**

Grade 9 (Annual exam - 2081)

Time: 2 hrs., Full Marks:50

**Group 'A' (10 Marks)**

**1. Answer the following questions in one sentence. [6×1=6]**

a. Mention any two uses of computer.

b. Which mainframe computer was brought first time in Nepal?

c. What is high level programming language?

d. Write HTML tag to make text bold.

e. Define constant.

f. Give one example of programming tool.

**2. Write appropriate technical terms for the following:**

**[2×1=2]**

a) Unit that controls and co-ordinates an entire system.

b) A machine allows withdrawing cash at any time.

**3. Write the full forms of the following:**

**[2×1=2]**

a) OMR

b) BIOS

**Group 'B' (24 Marks)**

**4. Answer the following questions. [9×2=18]**

a. List any four-application area of computer.

b. Differentiate between impact and non-impact printer.

c. Draw a labeled diagram of computer architecture.

d. Define CPU with two major sections of it.

e. What are input devices? Give example of it.

f. What is web browser? Give any two examples.

g. What is hyperlink? Write it’s importance.

h. Write HTML tags to insert picture in the webpage and to create unordered list.

i. Write HTML code to make the following table.

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| --- | --- | --- |
| **S.No** | **Name** | **Class** |
| 1. | Ram Shrestha | 10 |
| 2. | Hari Adhikari | 10 |

**5. Write output of the following with dry run.[2]**

CLS

I=1

WHILE I<=5

PRINT I^2+2;

I=I+1

WEND

END

**6. Rewrite the following program after correcting the bugs. [2]**

ELS

C=1

WHILE C<=5

PRINT C$

C=C+1

NEXT C

CND

**7. Study the following program and answer the given question.**

**[2×1=2]**

CLS

S=0

N=1

FOR C=1 TO 5

S=S+N

N=N+1

NEXT C

PRINT S

END

**Questions**

a. How many times does a loop execute?

b. List the variables used in the above program.

**Group 'C' (16 Marks)**

**8. Explain any four QBASIC statements. [4]**

**9. (a) Write a program to enter two numbers and check which one is greater. [4]**

**9. (b) Write a program to print the pattern. [4]**

1

12

123

1234

12345

**10. Write a program to reverse and check palindrome of a number. [4]**

**OR**

**10. Write a program to print Fibonacci series.**

0 1 1 2 3 5 8 13 …… nth terms.

**THE END**

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| **Question Type** | **Total question** | **Time** | **Total marks** |
| Very short answer | 10 [1 mark each] | 20 mins. | 10 |
| Short answer | 12 [2 marks each] | 48 mins. | 24 |
| Long answer | 4 [4 marks each] | 52 mins. | 16 |
| **Total** | **26** | **2 hours** | **50** |

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| **Chapters** | **VSQ** | **SQ** | **Long** | **Total** |
| **Computer Fundamentals** | **6×1=6**  **2TT, 2FF, 2QNA** | **5×2=10**  **5 QNA** | **-** | **16** |
| **Internet and Web Technology** | **1×1=1**  **1 QNA** | **4×2=8**  **4 QNA** | **-** | **9** |
| **Computer Programming** | **3×1=3**  **3 QNA** | **3×2=6** | **4×4=16** | **25** |
| **Total** | **10 questions** | **12 questions** | **4 questions** | **50 marks** |