FIRST TERM PABSON KATHMANDU

Group 'A'

1. Answer the following questions in one sentence: (6×1=6)

a) What is downloading?

b) What is intranet?

c) What is Wi-Fi?

d) Write any two commandments of cyber ethics.

e) What is an actual parameter?

f) What are the digits of hexadecimal number system?

2. Write appropriate technical term for the following: (2×1=2)

a) Cabling structure of LAN.

b) Transferring illegal items through the internet that is banned in some locations.

3. Write the full form of the following: (2×1=2)

a) G2G

b) HTTP

Group 'B'

4. Answer the following questions: (9×2=18)

a) Write about bus topology with suitable diagram.

b) Classify computer network on the basis of geographical location and explain it.

c) Differentiate between bounded and unbounded media with examples.

d) Write any four services of internet.

e) Write any two opportunities and threats in social media.

f) What do you mean by ICT?

g) What is the main aim of formulating cyber law of Nepal?

h) What do you understand by modular programming? State any two advantages of it.

i) What is local and global variable in QBASIC?

5. Write down the output of the given program. Show with dry run in table. (2)

```
DECLARE SUB PATTERN(S$)
CLS
B$="PROGRAM"
CALL PATTERN(B$)
END

SUB PATTERN(S$)
H=LEN(S$)
I=10
FOR J=1 TO H STEP 2
PRINT TAB(I); MID$(S$,J,H)
H=H-2
I=I+1
NEXT J
END SUB
```

6. Re-write the given program after correcting the bugs: (2)

```
CREATE FUNCTION CUBE(A)
REM to print cube of a number
CLS
Get "Enter a number"; A
Call CUBE(A)
END

FUNCTION CUBE(A)
ANS=A^3
ANS=CUBE
END FUNCTION
```

7. Study the following program and answer the given questions: (2×1=2)

```
DECLARE SUB FACTORS(N)
N=10
CALL FACTORS(N)
END

SUB FACTORS(N)
FOR J=1 TO N
R=N MOD J
IF R=0 THEN PRINT J;
NEXT J
END SUB
```

Questions:

a) Write down the use of MOD in the program.

b) How many time the loop executes in the above program?

Group 'C'

Long question Answers: (4×4=16)

8. Convert / calculate as per the instruction:

i) (111011 + 1101) - (11011)

ii) (11011 × 11) ÷ (110)

iii) $(235)_{10}$ into octal

iv) $(9A5)_{16}$ into binary

9. a) Write a program in QBASIC that asks two numbers to find remainder using SUB….END SUB program and product of two numbers using FUNCTION…END FUNCTION.

b) WAP to find sum of digits of a number using SUB….END SUB. [Hint: 456: 4+5+6=15]

10. Write a program to find greatest number out of three numbers using FUNCTION…END FUNCTION.

OR

Write a program to count the occurrence of letter 'e' in the supplied string using SUB…END SUB.