**Very Short answer questions. [10×1=10]**

a. Define search engine.

b. What is the main vision of IT policy of Nepal?

c. Define password policy.

d. Write any two popular Nepalese online shopping?

e. Write any two applications of AI.

f. The network of connected devices that interact and exchange information with each other is called?

g. Which data type is used to store date of birth in Ms-Access?

h. Write the full form of RDBMS.

i. What is the function of LEN?

j. Define byte in terms of data representation in computer.

**Short answer questions. [14×2=28]**

a. What are the services provided by computer network? Explain one.

b. Defne protocol. Write any two common protocols.

c. What things should be considered while managing digital footprint? Write any two.

d. Write any two threats and opportunities in social media.

e. Write any two-hardware security mechanism. Explain anyone.

f. Explain types of E-Commerce.

g. How public are benefited from the E-Governance? Explain.

h. Define mobile computing. Write some mobile computing devices.

i. a. Convert: (10111101)2 = (?)16 [1]

b. Perform: (10101010)2 + (11001100)2 [1]

c. (178)8 = (?)2  [1]

d. {(1011)2×(101)2}/(1001)2 [1]

j. Define validation rule and validation text.

k. What is primary key? Write it’s importance.

l. Write a program to check whether a number is Armstrong or not.

m. Write a program to print: 50 45 40 35 ……. 5th.

**Long question answers. [3×4=12]**

a. Explain data and software security mechanisms in brief.

b. Define cloud computing. Explain the types of cloud computing in brief.

c. Define DBMS in brief. Write the advantages and disadvantages of DBMS.

**The End**