**HIST/ Internal Assessment**

**Information Security**

Full Marks: 40

Pass Marks: 20

Time 2 Hrs

* Attempt **Any 4** questions. Question No. 1 is Compulsory.
* The figures in the margin indicate **Full Marks**
* All question carry **Equal Marks**

1. Consider that you are a Chief Information Security Office of one of the commercial bank of Nepal. Suggest the security measures that you will put in place to safeguard the Information System assets of the bank. (Hint. Elaborate your answer in terms of CIA triad and People, Policy and Technology.)
2. List different types of application security threats and among them explain two of the most prevalent threats.
3. Differentiate between DES, 3DES, AES and RSA cryptographic algorithms.
4. Explain SSO with its merits and demerits.
5. Differentiate between centralized and decentralized access control administration. Briefly explain any two centralized access control administration techniques.
6. What is a firewall? Compare different type of firewall with pros and cons of each type.
7. Why we need to conduct audit of an Information System? Discuss the steps of IS audit process.
8. Define cybercrime. Define cybercrime. Discuss the provisions in Electronic Transaction Act 2063 to combat cybercrime.
9. What is BCP? Explain the different between BCP and DRP.