

**B.Sc. (I. T.) Sem. - VI (2011 Course) : WINTER - 2018**  
**SUBJECT: ELECTIVE :CYBER SECURITY**

Day: Friday  
Date: 07/12/2018

**W-2018-1117**

Time: 10.00 am to 12.00 Noon  
Max Marks: 40

---

**N.B.:**

- 1) Attempt any **FIVE** questions.
  - 2) Figures to the right indicate **FULL** marks.
- 

- Q.1** Explain the goals of information security. **(08)**
- Q.2** a) Distinguish between risk, vulnerability, penetration and attack.. **(04)**  
b) What is authentication? What system of authentication is used in ATMs? **(04)**
- Q.3** What is “spy ware”? What steps can be taken to avoid being hit by spy ware? **(08)**
- Q.4** What is a “social engineering”? List some precautions that can be taken against social engineering attacks. **(08)**
- Q.5** Distinguish between symmetric and asymmetric encryption highlighting advantages and disadvantages of each. **(08)**
- Q.6** Describe how security is ensured for an on-line banking transaction. **(08)**
- Q.7** Write a short note on VPN, bringing out its application. **(08)**

\* \* \* \* \*