

**SUBJECT: CYBER SECURITY**

Day: Wednesday  
Date: 28/11/2018

**W-2018-1158**

Time: 10.00 am to 01.00 pm  
Max Marks: 60

---

**N.B.:**

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

- Q.1** a) Explain the goals of information security. (05)  
b) Describe the various threats faced by an information system. (05)
- Q.2** What do you understand by end-to-end encryption? What problems does this pose to the effective functioning of firewalls? Suggest a method to tackle the issue. (10)
- Q.3** What is a “phishing” attack? Explain the steps that can be taken to avoid security breaches due to phishing attacks. Describe the steps under the heads of “people”, “process”, and “technology”. (10)
- Q.4** A large number of applications are available today, both for PCs and smart phones. Discuss the security implications of downloading such applications (10)
- Q.5** Passwords are a widely used mechanism for user authentication. Describe the method by which passwords can be transmitted and stored securely. (10)
- Q.6** What is “spy ware”? Explain the damage that spyware can cause to an information system, and the steps that can be taken to avoid breaches due to spy ware. (10)
- Q.7** Why is an information security policy important for an organization? List any five major issues that you will include in a security policy. (10)

\* \* \* \* \*