

B.Sc. (I. T.) Sem. - VI (CBCS - 2015 Course) : SUMMER - 2019
SUBJECT: CYBER SECURITY

Day: Thursday
Date: 09/05/2019

S-2019-1288

Time: 10.00 a.m. to 01.00 p.m.
Max Marks: 60

N.B.:

- 1) Attempt any **SIX** questions.
 - 2) Figures to the right indicate **FULL** marks.
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- 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** What is a digital certificate? Explain in detail how they are created and issued. How does a digital certificate issued to an organization differ from a digital signature used by an organization to sign a document? **(10)**
- Q. 6** Describe the different types of attacks against passwords. How can each of these attacks be protected against? **(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)**
- Q.8** Write short notes on **ANY TWO** of the following: **(10)**
- a) DNS Poisoning.
 - b) SQL injection attack.
 - c) SSL stripping.