

**M. A. (ENGLISH)/ M.A. ECONOMICS /M.SC. MICRO. /M. COM.
//M.SC. COMP. SCIENCE/ M..SC. ANALYTICAL CHEMISTRY/
M.SC. ORGANIC / M.SC. INORGANIC SEM -II (CHOICE BASED
CREDIT AND GRADE SYSTEMS)EXTRA CREDIT (2012
COURSE) : SUMMER - 2018
SUBJECT : CYBER SECURITY**

Day : **Wednesday**
Date : **02/05/2018**

S-2018-0937

Time : **11.00 AM TO 02.00 PM**
Max. Marks : **60**

N.B.

- 1) All questions are **COMPULSORY**.
 - 2) Figures to the right indicate **FULL** marks.
 - 3) Draw diagrams wherever necessary.
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Q.1 What is Digital Signature? What is meant by suspension and revocation of a digital signature certificate? (15)

OR

What is Firewall? Describe various types of firewall in detail. State its benefits.

Q.2 A] Answer any **ONE** of the following: (08)

- i) What is e-governance? List the benefits of e-governance.
- ii) Why cyber space regulation is needed?

B] Answer any **ONE** of the following: (07)

- i) How computer source code is protected under IT Act 2000?
- ii) Explain functionality of any three layers of OSI model.

Q.3 Answer any **THREE**: (15)

- a) Differentiate between symmetric and asymmetric cryptography.
- b) What is IP address spoofing?
- c) Elaborate block ciphers and its ECB mode of operation.
- d) Discuss various conditions necessary to become a certifying authority.
- e) What is Encryption? Why it is necessary to encrypt the data?

Q.4 Write short notes on any **THREE**: (15)

- a) Hacking
- b) Role of CA Controller
- c) RSA algorithm
- d) IT Act 2000
- e) DMZ (De-Militarized Zone)

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