(AUTONOMOUS)

BSc DEGREE EXAMINATION DECEMBER 2017

(Fifth Semester)

Branch- **COMPUTER TECHNOLOGY**

CRYPTOGRAPHY AND NETWORK SECURITY

Time : Three Hours . Maximum : 75 Marks

SECTION-A (20 Marks)

Answer **ALL** questions

ALL questions carry **EQUAL** marks (1 0 x 2 = 20)

1 Define Integrity.
2 What is security mechanism?
3 Give any two HMAC design objectives.
4 What is public key encryption?
5 State the use of PGP.
6 Define authentication.
7 List out confidentiality oriented threats.
8 Why TCP is used?
9 What is a virus?
10 Mention the different types of firewalls.

SECTION - B *(25* Marks)

Answer **ALL** Questions

ALL Questions Carry **EQUAL** Marks (5 x 5 = 25)

11 a Discuss about two specific authentication services which are defined

b Write short notes on Data integrity.

12 a Write short notes on Hash function requirements.

OR

b List out the various applications of public key cryptosystem and explain.

13 a Explain about e-mail compatibility.

OR

b Brief about the confidentiality provided by PGP.

14 a Classify web security threats.

OR

b Explain about SNMP.

15 a Give some examples of hackers patterns of behaviour.

OR

b Explain the three parts of Computer Virus.

SECTION - C (30 Marks)

Answer any **THREE** Questions

ALL Questions Carry **EQUAL** Marks (3 x 10 = 30)

16 Explain about the model of network security.

17 Discuss about the structure of public key cryptography.

18 List out and explain the services provided by PGP.

19 Discuss about the secure electronic transaction.

20 Explain about intansion techniques.

Z-Z-Z END