

**PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)**

**BSc DEGREE EXAMINATION MAY 2018
(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 (10 x 2 = 20)

- 1 Define Confidentiality,
- 2 What is a Security attack?
- 3 State the use of message authentication code.
- 4 Why a hash function is required?
- 5 What is Kerberos?
- 6 What is S/MIME?
- 7 State the use of SSL.
- 8 List out integrity oriented threats.
- 9 What is Nutrition?
- 10 State the consequence of a virus infected system.

SECTION - B (25 Marks)

Answer ALL Questions

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

- 11 a Discuss about the three security requirements triad.
OR
b Write notes on Security services.
- 12 a Briefly write on message authentication code.
OR
b Discuss about digital signature.
- 13 a Give the reasons for the growth of PGP.
OR
b Write short notes on applications of IPSec.
- 14 a Describe about web security considerations.
OR
b List out the parameters used to define a session state.
- 15 a Brief out the three classes of intruders.
OR
b Write about the four phases of virus while its execution.

SECTION - C (30 Marks)

Answer any THREE Questions

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

- 16 Explain about the different security attacks in detail.
- 17 List out the requirements of public key cryptography.
- 18 Discuss about the Kerberos in detail.
- 19 Give an elaborate note on the significance of Transport layer protocol.
- 20 Discuss about firewalls in detail.

Z-Z-Z

END