

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)
BSc DEGREE EXAMINATION MAY 2017
(Sixth Semester)

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Branch- **INFORMATION TECHNOLOGY**
INFORMATION SYSTEM SECURITY

Time : Three Hours .

Maximum : 75 Marks

SECTIONS (20 Marks)

Answer **ALL** questions

ALL questions carry **EQUAL** marks (10 x 2 = 20)

- 1 What is a stream cipher?
- 2 What are confusion & diffusion? •
- 3 What is a man-in-the-middle attack?
- 4 What are meant by coupling & cohesion?
- 5 What is a sensitive data? Give example.
- 6 What is “partitioning” under separation method of multilevel security proposal?
- 7 What do you mean by port scan?
- 8 What are the issues need to be addressed by a security plan?
- 9 What do you mean by reverse engineering?
- 10 What are the provisions of the DMCA (Digital Millennium copyright Act)?

SECTION - B (25 Marks)^

Answer **ALL** Questions

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

- 11 a Discuss about the basic components of computer security.
OR
b Write about on-time pad with a simple example.
- 12 a Briefly explain about the types of malicious code.
OR
b Explain about the “Fence Register” and “Base-bound register” method of * memory protection.
- 13 a Discuss about monitors who maintain the structural integrity of the database.
OR
b Explain the indirect attacks on sensitive data.
- 14 a Describe about the end-to-end encryption as a network security control.
OR
b Discuss about the physical security in security administration.
- 15 a Write about employment contracts. .
OR
b Discuss on “Information and the Law”.

SECTION - C (30 Marks'!

Answer any **THREE** Questions *

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

- 16 Describe about the hash algorithms.
- 17 What are the file protection mechanism under operating system security? Explain them.
- 18 Discuss about the proposals for multilevel security in database.
- 19 Discuss about IPSec security with required pictures.
- 20 Discuss about the ethical issues in computer security.