No. of Printed Pages: 2

GS-644

Time: 3 Hours

VI Semester B.C.A. Examination, May/June - 2019

COMPUTER SCIENCE

BCA 603: CRYPTOGRAPHY AND NETWORK SECURITY

(CBCS) (F+R)(2016-17 & Onwards)

Instructions: Answer **all** the sections.

Max. Marks: 100

SECTION - A

Answer any ten questions. Each question carries two marks. 10x2=20

- 1. Define Cryptography.
- 2. Distinguish between active and passive attacks.
- 3. Define Integrity and Non-repudiation.
- 4. Find the GCD of 16 and 48.
- 5. Define Padding in block cipher.
- 6. Define Resedue class.
- 7. Estimate the block size of MD5.
- 8. Define S/MIME.
- 9. What is Kerberos?
- 10. Define the Diffie Hellman protocol.
- 11. List any 2 applications of X.509 certificate.
- 12. Define Hijacking.

SECTION - B

	Answer any five questions. Each question carries five marks.	5x5=25
13.	Compare steganography and watermarking.	5
14.	State and explain the principles of public key cryptography.	5
15.	With a neat diagram explain the general structure of DES.	5

P.T.O.

SECTION - D

Answer any one question. Each question carries ten marks.

1x10=10

26. Discuss in detail block cipher modes of operations.

10

27. List and explain the properties of Hash functions.