



PH-003-004603

Seat No. _____

B. Sc. (I.T.) (Sem. VI) (CBCS) Examination

July - 2018

CS - 32 : Network Management & Information Security
(New Course)

Faculty Code : 003

Subject Code : 004603

Time : $2\frac{1}{2}$ Hours]

[Total Marks : 70

- Instructions :** (1) This question paper consists total 3 main questions.
- (2) Main questions 2 and 3 include sub questions (a), (b) and (c) respectively
- (3) Figures indicated to right indicate total weightage to main question.

1 Answer the following : **20**

- (1) Full form of ISO is _____
- (2) Full form of IETF is _____
- (3) Full form of OSI is _____
- (4) Full form of RFC is _____
- (5) Full form of MTU is _____
- (6) Full form of RARP is _____
- (7) Full form of MIB is _____
- (8) Full form of SNMP is _____
- (9) Full form of ISP is _____
- (10) Full form of L2TP is _____
- (11) Full form of ICMP is _____
- (12) Full form of IKE is _____
- (13) Full form of EAP is _____

- (14) Full form of SSL is _____
- (15) Full form of DDoS is _____
- (16) Full form of IPSec is _____
- (17) Full form of TLS is _____
- (18) Full form of UDP is _____
- (19) Full form of DNS is _____
- (20) Full form of CIA is _____

- 2** (A) Attempt the following : (Any **Three**) **6**
- (1) Explain what is Information and Information Security.
 - (2) Explain : Ping Command
 - (3) Explain : Traceroute Command
 - (4) Explain : MTU
 - (5) Explain : TCP
 - (6) Explain : IP
- (B) Attempt the following : (Any **Three**) **9**
- (1) Explain : What is VPN ?
 - (2) Explain : Parental Control Over Internet
 - (3) Explain : IPSec
 - (4) Explain : IP Spoofing and TCP Session Hijacking
 - (5) Explain : Buffer Overflow and SYN Flooding
 - (6) Explain : TCP Sweep and Port Scan.
- (C) Attempt the following : (Any **Two**) **10**
- (1) Explain in detail : CIA Model
 - (2) Explain in detail : MIB
 - (3) Explain in detail : Various Security Services
 - (4) Explain : Working of SNMP Protocol in detail
 - (5) Explain in detail : OSI model.

- 3** (A) Attempt the following : (Any **Three**) **6**
- (1) Explain : DNS
 - (2) Explain : Smurf Attack
 - (3) Explain : Land Attack
 - (4) Explain : ICMP
 - (5) Explain : PPTP
 - (6) Explain : Cookies.
- (B) Attempt the following : (Any **Three**) **9**
- (1) Explain : How Biometric Device Works ?
 - (2) Explain : Kerberos
 - (3) Explain : AH and IKE
 - (4) Explain : Network Management System
 - (5) Explain : Firewall and its usefulness
 - (6) Explain : Network Security Policy and Audits.
- (C) Attempt the following : (Any **Two**) **10**
- (1) Explain : Various Biometric Techniques
 - (2) Explain : Brute Force and Dictionary Attack
 - (3) Explain : IPSec and various tunneling protocols
 - (4) Explain : Digital Signature and Digital Certificate
 - (5) Explain : DoS in detail.
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