

૧. દરેક પ્રશ્નનો [a] અથવા [a(i)] અને [a(ii)] ૧ લખવાના રહેશે.  
 ૨. પ્રશ્ન : ૧[a] અથવા ૧[a(i)] અને ૧[a(ii)] તથા ૨[a] અથવા ૨[a(i)] અને ૨[a(ii)] ના 14 માર્ક્સ ના બદલે ૧૮ માર્ક્સ રહેશે.  
 ૩. પ્રશ્ન : ૩[a] અથવા ૩[a(i)] અને ૩[a(ii)] તથા ૪[a] અથવા ૪[a(i)] અને ૪[a(ii)] ના 14 માર્ક્સ ના બદલે ૧૭ માર્ક્સ રહેશે.  
 ૪. દરેક પ્રશ્નનો પ્રશ્ન નં ૧(b), પ્રશ્ન નં ૨(b), પ્રશ્ન નં ૩(b) તથા પ્રશ્ન નં ૪(b) (ટુંકા પ્રશ્નો) વિદ્યાર્થીએ લખવાના નથી.

- Q-1 (A) Write a note on Malicious Software and its effects. 14
- OR**
- Q-1 (A) 1. Explain Unauthorized access and Impersonation. 07  
 2. Explain Confidentiality, Integrity and Availability. 07
- Q-1 (B) **Attempt any 4 out of 6** 04  
 (1) Full form of Virus is \_\_\_\_\_.  
 (2) Trapdoors are also referred backdoors. [True/False]  
 (3) What do you mean by Vulnerability?  
 (4) Full form of DOS is \_\_\_\_\_.  
 (5) Logic bombs are small programs or sections of a program triggered by some event such as a certain date or time. [True/False]  
 (6) Unauthorized access is the use of a computer or network without permission. [True/False]
- Q-2 (A) Write a note on OSI model. 14
- OR**
- Q-2 (A) 1. Write a note on security services. 07  
 2. Explain TCP and UDP in detail. 07
- Q-2 (B) **Attempt any 4 out of 6** 04  
 (1) Explain work of ARP in brief.  
 (2) Full form of MTU is \_\_\_\_\_.  
 (3) What is DNS?  
 (4) Full form of ICMP is \_\_\_\_\_.  
 (5) What is Ping?  
 (6) Explain work of RARP in brief.
- Q-3 (A) Write a note on IPSec protocol. 14
- OR**
- Q-3 (A) 1. Discuss VPN Technology in brief. 07  
 2. Explain IP Spoofing and Session Hijacking. 07
- Q-3 (B) **Attempt any 3 out of 5** 03  
 (1) Explain Smurf attack in brief.  
 (2) Full form of IKE is \_\_\_\_\_.  
 (3) Explain Teardrop attack in brief.  
 (4) What do you mean by sequence guessing?  
 (5) Full form of PPTP is \_\_\_\_\_.
- Q-4 (A) Discuss types of Biometric techniques and also explain false acceptance and false rejection in biometric. 14
- OR**
- Q-4 (A) 1. Write a note proxy Server. 07  
 2. Discuss brute force and dictionary attacks. 07
- Q-4 (B) **Attempt any 3 out of 5** 03  
 (1) Define: Firewall.  
 (2) Write a use of cookies.  
 (3) A network firewall protects a computer network from unauthorized access. [True/False]  
 (4) List the types of security attacks.  
 (5) What do you mean by Password Authentication?