AKGEC/IAP/FM/02

Ajay Kumar Garg Engineering College, Ghaziabad

Department of MCA

Model Solution- Sessional Test-2

Course: Session: MCA

2017-18

Subject:

Cyber Security

Max Marks:

Semester:

Section:

Sub Code:

MCA-1 & 2 RCA-305

Time:

2 hour

III

Section-A

 $(5 \times 2 = 10)$

O1. What is need of Electronic Cash?

Elichronic cosh refers to dectronic bransfer of money in the form of a block of data representing money must is transferred online.

Q2. What do you mean by Application Security?

Application security is the use of Software, hardware and Procedual milhods of Bostes applications from external morals.

O3. What do you understand by Spoofing?

Ans. Spooting means to Provide false information about your Identity to gain unauthorized access of other computers.

Q4. What is Closed Circuit Television Surveillance (CCTV)?

Ans. CCTV corners are also called the third eye because if human being messed noticing Some people entering a restricted zone, these camaras could capture the event or thotos.

Q5.Define IT asset.

Ans. An assit is a resource with economic value that an individual, corporation or country owns or controls with the expectation and it will from the duture benefit physical security of our asset, especially the large is also very jumportant.

Section-B

 $(5 \times 5 = 25)$

Q6. What is Firewall? Explain its various types in detail.

Ans. Fixewall is a vidwork security system had controls the incoming and outgoing network trathic based on an applied rule sel.

- -> Nardware fixewall is Physical Picce of Equipment
 Not is kept between the internet and your LAN
 Natural.
- -> Saftware tirewall is a Software Program 1.0. installed on your computer.

- 1) Packet Siller: Inspeeds all packets.
- 2) Application hud gateway: FTP & Tilnet.
- 3) Circuis level galoway: TCPSUDP convention.
- 4) Proxy sexus: Check all messages mot conley or have a viduork.
- @7: what is e-payment? Discuss requirements for E-payment through credit-cord.
- Ans: There are several organizations most founds services for ordine parment, call e-payment.

Requirements for c-payments

- 1) Privacy: Details about any transaction must be kept secordy away from unauthorized Parties. Privacy is usually ensured by using everyption technique.
- 2) Integrity: Dala cannol be altered or tamper while in transit. Integrity can be energed using digital signature and certificate.
- 3) Authentication: Authentication is vital to Powent Grand
- 4) No-Repudiation: No one cannot deny Mariy Services.
- 5) Alomicity: Money is not lost or created during a transfer.

(38: Discuss the Various types of malicious software.

1876: Malicious Software Condinare) is any software

1870: Malicious Software Condinare) is any software

1870: Malicious Partial to full control of your computes

200 do whatever the malware creator wants.

There are Three types of Malicious Software:

1) Molware: Software which is specifically disjoned to distort, damage, or gain authorized access to

a compuler System.

2) Noware! Software that automatically displayed or downloads absentising material such as bannons or pop-up when a user is online.

3) Spyware: Software that enables a user to obtain convert information about anothers computer activities by transmitting data courtly from their hard drive.

cas what are Security Considerations during Information System development?

Bus;

Extracted Trylormation

System monagement

17 Alignments Architectora

Planning

FISMA

Risk Basel

Financial

Risk Basel

Financial

Monagement

Risk Basel

Financial

Monagement

Towargement

Step 1: Identification and planning: followed by improvement of risk are impossional Processes developing a Secure Information System.

Shep? Manage 815k ProBusty.

We have so sind a balance between disturent Process snat include Protecting organizations information and assis, cost

incurred in applying security controls and

in Josephalian Strategus.

Finally! Secure Is duuloped by integrationy risk analysis and management activities at the start of the system duulopment and Continuing theroughout.

Q10 what is Intrusion Detection System (IDS)? Explain MIDS and MIDS.

Mrs. An IDS is a durice or software application med moniture rutwork or system activities for malicious activities or Policy violations and Produces reports to a managements Station.

NIDS, (Network I who sion detection Systems) are placed at a drategic point or points within the network to monitor traffic to and from all devices on the network

Individual hosts or divices on the newark.

- N MIDS monitors the inbound and outbound

Packets from the device only and will alist
the uses or administrator of suspicious activity
is detected.

Section C

(2×7.5=15)

Q 11, what are data Security Considerations? Explain in this suference data backup, data archival Security and data disposal consideration.

Ans: Doba is any type of Social disital information and Security is about the Protection of assets.

Prevention: measorus taken to Protect your assuls trom being damaged.

Detection: measures taken to allow you to detect when an arset has been damaged, how it was been damaged it.

Reachen! measures must allow you to recovery

1) Data Backup Security Considerations:

-> Backup of data is nothing but storage of shapshot of data at certain points and in case of data

- -> you should backup your tiles incrementally or differentially.
- -> Validate your backup coplus.
- -> frequently take backup of your data.

2) Data archival Security Consideration

- The Process Separating older data from corrently active, new, and fresh data is know as archival of data.
- -> The separated old data is moved to a different storage device so hat data can be retained for a long time and reference whenever required.

3) Data disposal Security consideration

- -> Distruction of data mesons to completely wipe out the data from the storage media. This process is called data disposal.
- -> Data disposal is an act of Permanently deleting or dubroying the data stoad in media.

: abordin based sib polo c-

- -> ownerlying hard drives
- Degaussing hard drives and backup takes.
- -> Ousbroying storage midia.

- (212 what are the security issues plated to i hordware, doto storage and downloadable device? Socuring computer System means to Protect all 68 1ts components that include:
 - hardware, solfware, storage devices, operating system and peripheral devices.
 - -> Each component has own vulnerability Euch as Stardwarze parts can be Stolen and destroyed.
 - -> Security of Each component is equally important.
 - 1) Security Issues in Nardward: hardward mainly faces security issues related to stealing, destruction, gaining unauthorized access and breaking the security code of conduct.

Security measures:

- -> Biometric access control
 - -> WAR WPN
 - Use strong Passwords.
 - -> Provide limited account to he devices.
- 2) Security I ssus with storage Devices:
 - -> Data Storage divices are used to save information.
 - -> Diviou such as compact dick (CD), digital
 Versatile disk (DVD), memory card, flush drime
 etc.

- -> Ean store information and be removed from me system to be kept on some other place.
- -> The main issues are
 - -> Lass and trest of dodg.
 - -> Improper disposal of data
 - -> Introduction to malward in gove system.
 - Devial of dater i.e. attak or availability of dater.
- 3) Security Issur with downloadable devices
- -> Peripheral Devices (PD): PDA, Exturnal Nard Drive
- -> They are more vulnerable to attacks.
- -> Issues related to them are-
 - -> Shealing of data.
 - -> Destruction of dater.
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