

Section - 3

Q1 Write short notes on: & security
(i) File system protection
(ii) Linked file allocation methods

ANS (i) Protection & security requires that computers resources such as CPU, softwares memory etc. are protected. This extends to the operating system as well as the data in the system.

Threats to protection & security => A Threat in a program that is malicious in nature & leads to harmful effects for the system.

Viruses => viruses are generally small snippets of code embedded in a system.

(i) Trojan Horse

(ii) Trap Doors

(iii) Worm

(iv) Denial of Service

(v) Protection & security methods

(vi) Authentication

1	2	3	4	5	6
7	8	9	10	11	12
13	14	15	16	17	18
19	20	21	22	23	24
25	26	27	28	29	30

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13	14	15	16	17	18
19	20	21	22	23	24
25	26	27	28	29	30

ANS (ii) Linked file allocation methods => The allocation method defines how the files are stored in the disk blocks. The direct access method of the disks give in the flexibility to implement the files. In many cases, disjoint files. In files are stored on the same disk. The main problem that occurs in the open filing system is that how we access the space to these files.

- Contiguous allocation
- Linked allocation
- Indexed allocation

The main idea behind contiguous allocation method is provide.

- Efficient disk space utilization
- Fast access to the file blocks