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Subject - Cloud Computing

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Date	14/01/22

Section-A (Any five) @

- Que-1 Write the full form of SaaS.
- Que-2 Write the two benefits of cloud storage.
- Que-3 Write the full form of CASB.
- Que-4 Explain cyber attack.
- Que-5 Define Data Encryption.
- Que-6 Write the privacy and legal issues in cloud computing.

Section-B (Any one)

- Que-7 Write and explain challenges in cloud storage management.
- Que-8 Write different types of scheduling in cloud computing.

Answers -

Section-A

Ans-1 SaaS stands for Software as a Service.

Ans-2 Two benefits of cloud storage are:

- Can be accessed from anywhere and with any device.
- No headache of managing the data.

Ans-3 CASB - Cloud Access Security Broker.

Ans-5 Data Encryption -

It is the process of encrypting data to secure it from attackers so that even if they get access to it they get an encrypted data and couldn't use it. The encrypted data is encrypted in a certain manner so that it can be decrypted again when using it need arises.

Ans-6 Some common Privacy and Legal Issues in Cloud Computing are :-

- a) Malicious Attack
- b) Data breaches
- c) Data Accessing
- d) Account Hacking
- e) DOS (Denial of Service) Attacks
- f) API's hacking and Interface hacking
- g) Data Security Threats (on Public Cloud).

Section - R

Ans-8. There are 6 type of Scheduling in Cloud.

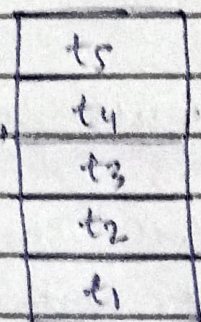
- i) First Come First Serve (FCFS)
- ii) Priority Queue Scheduling
- iii) Round Robin Scheduling
- iv) Shortest Job First Scheduling
- v) Multi-level Feedback Queue
- vi) Multilevel Queue Scheduling

i) First Come First Serve Scheduling :

This is simplest form of scheduling. In this technique, the data packet entered first reaches the destination first. This type of scheduling is best for small data transfers. It gives less headache.

Order of execution for processes,
 t_1, t_2, t_3, t_4 and $t_5 \Rightarrow$

1. t_1
2. t_2
3. t_3
4. t_4
5. t_5



(ii) Priority Queue Scheduling :-

In this type of scheduling, different process ^{have} different level of priorities and processes are executed based on priority.

(iii) Round Robin Scheduling :-

In this process, every process is given definite time and every process is included in different rounds. In this, those rounds are processed and according to those rounds, the time allotted to task/process is given, no matter if the process completes in that time period or not.

(iv) Shortest Job First (SJF) :-

As the name suggest, in this type of scheduling, the process taking shortest time is executed first and then next which take same or more time then first and so on.

(v) Multi-Level Feedback Queue :-

This scheduling uses both round robin and FCFS for execution. It contains multiple queues. The first two queues works on RR (Round Robin) and thereafter on FCFS (First Come First Serve).