

### Question#1

The domain call device (DNS) is a naming database in which internet domain names are located and translated into Internet Protocol (IP) addresses. The vicinity name device maps the decision people use to find out a net web website online to the IP address that a computer uses to find out that net web website online.

DNS is largely a international repository of names that thing to IP addresses in which facts gets served as tons as clients. DNS allows clients to type easy-to-keep in mind names of their Web browsers to get to the Website or services they need.

DNS servers convert URLs and domain names into IP addresses that pc structures can understand and use. They translate what someone kinds proper right into a browser into a few component the device can use to find out a webpage. If your Domain Name System (DNS) fails then all online eCommerce industrial corporation stops working. Your DNS name approach lots for your eCommerce industrial corporation.

If all DNS servers were taken offline thru a DDoS assault then they have got efficaciously taken taken down a company's Website, electronic mail and extraordinary services. if DNS servers move down, customers ought to now not be able to get proper of access to the Website or any services which is probably hosted thru manner of manner of those servers.

### Question #2

Static internet pages are made of "constant code," and until the webweb page developer makes adjustments, not anything will alternate at the web page. Think of it like a brochure for a business. Static webweb sites provide quite a few the equal sort of statistics that you can get from a brochure, however it can't simply alternate itself. In order to do this, a person has to create a brand new web page. That's why static web sites are on occasion known as brochure webweb sites. Nothing is saved however the real pages of a static webweb page.

There are:

- No users • No comments • No weblog posts • No interactivity

A static internet site is introduced to a consumer precisely the manner it's saved. That approach that not anything at the web page will alternate via way of means of the consumer or maybe the webweb page administrator until there's a redecorate of the webweb page, or the webweb page administrator is going immediately into the code to alternate it. You'll regularly listen static webweb sites referred to as web sites and dynamic webweb sites referred to as internet apps. It all is going returned to the concept that there are web sites and internet applications. A internet utility is a internet site, however quite a few web sites can't be internet applications. For example, Facebook is a internet site and an internet utility. However, a business's easy internet site isn't always an internet utility.

A static webweb page is the maximum simple form of internet site, and the very best to create. It calls for no server-**aspect** (additionally referred to as returned-end) processing, **handiest** client-**aspect**. Client-**aspect** technology are HTML, CSS, and JavaScript. No programming languages, **such as** JavaScript, are required to make a static webweb page. However, if a domain makes use of JavaScript, however no PHP or every other programming language, it's nonetheless taken into consideration a static webweb page (in view that JavaScript is a client-**aspect** language). So, in case you need a domain **handiest** to offer statistics that doesn't want to be up to date regularly, developing a static internet site is a easy and powerful manner to go.

### ADVANTAGES:

- 1) It is **short** to **expand**.
- 2) It is **inexpensive** to **expand**.
- 3) It is **simpler** to host.
- 4) It is **right** for small websites.
- 5) It is **simpler** for **engines like google** to index.
- 6) It is **quicker** to **switch** on **gradual** connections.

### Disadvantages

- 1) It **might cost a little extra** for **lengthy** run.
- 2) For any **adjustments** you'll **want to attend till** your **internet fashion dressmaker** has time to make the **adjustments**.
- 3) Limited functionality

4) Website editors **want enormous schooling** and **talents** to **expand** the **internet webweb page** to **contemporary requirements** and practices. This is **regularly** time consuming, **high-priced** and ongoing.

### Question #3

The hourglass **version** is **broadly utilized in** describing the **layout** of the Internet. The **form advised through** the hourglass **version** expresses the **intention** that the spanning layer **has to help diverse programs** and be implementable **the usage of** many **viable helping** layers.

- An interconnection protocol (IP): In this **each tool** have a given IP ,**each net tool** must speak IP address. This layer is **now and again referred to as** the Network layer. This layer **presents ensures** to the layer above.
- TCP/UDP: Known **because the delivery** layer. **community** layer **presents ensures to move** layer **one in all** them is **network** connectivity. layer 3
- Application layer: It **consists of** many protocols that **numerous packages** use e.g: the **internet makes use of** HTTP or mail **makes use of** the protocol SMTP
- Ethernet(**under** IP) Link layer **offer factor** to **factor** connectivity or connectivity on a **nearby region community**. This is layer 2
- Physical layer(**under** Ethernet)  
It **consists of** protocols **which includes** SONAT. This is layer 1

### Question 4:

Inventory
<u>id</u>
quantity
created-at
modified-at
deleted-at

### Inventory

<u>Id</u>	Quantity	created - at	modified
Z01	25	25-5-2020	1-6
Z03	30	26-5-2020	1-6
M05	90	26-5-2020	4-6
M03	105	26-5-2020	4-6

### Order

Order-ID	Order-user-ID	Order amount
OR55	U05	100 \$
OR51	U52	50 \$
OR49	U06	10 \$
OR75	U51	2000 \$
OR23	U53	10,000 \$

## INVENTORY

ID

INT(11)

quantity INT(25)

Created at TIMESTAMP

modified at TIMESTAMP

deleted at TIMESTAMP

STORE

ID

## Question 5:

(a)

Having a strategy

Selecting DNS for website

Pricing and paying methods

Marketing

Updating data

(b)

Infrastructure refers to **all of the centers** and **machine had to** run your ecommerce **enterprise agency**. This **consists of** the hardware, software, network, and **offerings** that **assist** your operations from **begin to** finish. With the **proper** ecommerce infrastructure, you **cannot best** optimize your **everyday average overall performance however furthermore put together** your **enterprise agency** to scale. Softwares: • Magento • Woo commerce • Shopify • Prestashop • OpenCart Hardwares: • CPU: for **internet** 1,6 GHz , for **internet** and database **4** x 1,6 GHz CPU. • RAM: 4GB. • Minimum database space: 10GB. • CPU: Quad 2GHz+ CPU. • RAM: 6GB.

(c)

Content

**control**

capabilities Promotion &

**cut price**

code tools.

An easy-to-use checkout

**search engine optimization**

**pleasant**

code and layout.

Advanced

eCommerce

**search engine optimization**

capabilities.

Reporting tools &

**custom**

**record**

**functions**

.

An

**included**

**weblog**

or articles

**phase**

from material.

Email

**advertising**

**functions**

or integration of

books .

Multiple

**price**

**alternatives**

for

**ee**

**-e book**

buying (Credit card, PayPal, PO, Terms, etc.).

The

**capacity**



to scale &  
**upload**  
new  
**ee**  
**-e book**  
**functions.**

(d)

Some Applications that help us to run our Ecommerce infrastructure are:

**Marketing**

**Customer service**

**Information technology**

**Fulfillment**

**Finance and administration**

**Publishing**

**Human resource**

**Facilities**

**Retail and wholesale**

€)

We will Create a **format to prepare** our **records** effectively Elaborating an ecommerce database **structure** is **step one** in its development. With a **very well** designed database, we will make our ecommerce database a long-**time period answer** that won't require many updates and **adjustments while** your **commercial enterprise** is up and running. Database **layout** is **specially decided with the aid of using** a database schema. It is expressed in a diagram or **a fixed** of rules, aka integrity constraints written in a database language like SQL, that **outline** how the **records** is arranged, stored, and processed.

**Overview:**

We can use my sql if we want to manage data of books but if we want manage large we will use Oracle .

As image searching are important part of websites so we added image searching which is based on fastest algorithm which allow customer to search through images

Firstly, we planned that what are our requirements and then chose a domain name for our website that is unique. Makes strategies for marketing and updating data time by time.

Using front-end and back end coding we will make different sections using different algorithms.

Checks the security and mobility of our e-book store. It have the responsible design as well as mobile friendly.