

Which language defines the behaviour of a web-page ?

- A) HTML
- B) CSS
- C) XML
- D) JavaScript

HTML tells the web browser that how a web page should be displayed. But JavaScript controls the behavior such as which function will be triggered page on load or button on click

How to append a value to an array in JS?

- A) `arr[arr.length] = value`
- B) `arr[arr.length + 1] = new Arrays()`
- C) `arr[arr.length - 1] = value`
- D) `arr[arr.length * 1] = value`

Which machine actually executes the JS?

- A) Web server
- B) JavaScript engine
- C) The machine which is running on a web browser

JavaScript is executed by web browser. Most web browsers have a built-in program called 'JavaScript Engine', which is written in C++ language.

Which layer filters the proxy firewall?

- A) Application
- B) Transport
- C) Network
- D) NONE

Proxy firewall protects network resources by filtering messages at the application layer. Proxy firewall is also known as 'Application Firewall' or 'Gateway Firewall'.



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5. Asymmetric key is also called -

A) Public key

B) Secret key

C) Private key

D) NONE

Asymmetric key is also known as Public key in cryptography, which is a process that uses a pair of related keys - one public key & one private key to encrypt and decrypt a message and protect it from unauthorized access or use.

6. In authentication using symmetric key, if 10 people want to communicate, how many keys will be needed?

A) 10

B) 45

C) 50

D) 90

Each person need 9 keys to communicate with others.

It looks like we need  $10 \times 9 = 90$  keys.

If same key can be used in both directions (from A to B & from B to A)

then we need only  $(10 \times 9) / 2 = 45$  keys

7. What kind of language is PHP?

A) Server

B) Client

C) System

D) Loosely typed



8. fopen() function in PHP is used to ---

- A) Open files
- B) Open folders
- c) Open remote server
- D) NONE

fopen() function is an in-built function which is used to open a file or URL.

9. How PHP files can be accessed?

- (01) A) through web server
- B) through web browser
- c) through HTML files
- D) All of these above

PHP files are often used as a web pages that usually generate HTML from a PHP engine running on a web server.

10. AJAX stands for -

- (04)  A) Asynchronous Javascript and XML
- B) Advanced JSP and XML
- c) Asynchronous JSP and XML
- D) Advanced Javascript and XML

AJAX is not a technology but a group of technologies, which uses many web technologies to create a set of web development techniques

11. A dial-up connection enables a connection to ISP using a ----.

- (01) A) MODEM
- B) Router
- c) Gateways
- D) Bridge



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12. DNS is an internet service that translates domain name to or from -

- A) MAC Address
- B) IP Address
- C) Both of these
- D) NONE

DNS also known as the phonebook of the Internet, which is an important part of the web's infrastructure.

13. What is used to identify a user who returns to a website?

- A) Cookies
- B) Plug-ins
- C) Scripts
- D) API

A cookie is a small file of letters and numbers downloaded on a computer when a user accesses certain websites. Cookies can't infect computers with viruses or malware.

14. The JavaScript's syntax calling a function / method is -

- A) Primary expression
- B) Functional expression
- C) Invocation expression
- D) Property Access expression

15. What is the maximum size for an IP packet for IPv4 or IPv6?

- A) 65540
- B) 65535
- C) 65577
- D) 67544

The minimum size of IP packet is 20 bytes.



16. Which of the following are JS optimizers?!

- A) JSmin
- B) Packer
- c) Minify
- D) JSmin & Packer

JavaScript optimizers such as JSmin and Packer are specially designed for modern web programming techniques, and are able to understand and preserve conditional comments and similar.

17. In the digital signature technique, the receiver of the message uses \_\_\_\_\_ to create plaintext.

- A) sender public key
- B) his/her own public key
- c) his/her private key
- D) his/her symmetric key

In Digital Signature, a public key is used to sign a document. The sender uses a private key to encrypt the message while the receiver uses the public key of the sender to decrypt the message.

18. If user A wants to send an encrypted message to user B, the plaintext is encrypted with the public key of \_\_\_\_\_.

- A) The network
- B) user A
- C) user B
- D) NONE



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19. Which one of the following database has PHP supported almost since the beginning?

A) Oracle Database

B) SQL

C) MySQL

D) SQL+

We can connect, insert, update, delete and retrieve data from the database with the help of PHP. MySQL is the most popular database system used with PHP.

20. Which datatype is best suited to store currency values?

A) FLOAT

B) INT

C) Decimal

D) Double

Currency is a numeric information. For monetary calculations, FLOAT and DOUBLE are subject to rounding error and may not be suitable.

A DECIMAL (M,2) type is best suited for it.

21. The output from PHP is —

A) statically generated

B) not generated

C) dynamically generated

D) no output

The interpreter switches between code mode back and text mode when it sees another special tag which signals the end of the code. This enables the mix of static text with dynamically generated results.

22. The PHP interpreter switches mode continuously.

A) True

B) False



As soon as the PHP interpreter comes across a special opening tag it switches from 'text copy' mode to 'PHP code' mode. It starts interpreting the file as PHP to be executed.

23. PHP variables are preceded by -

- A) -
- B) @
- C) \$
- D) &

All the PHP scripts that use variables have variable names preceded by the dollar (\$) sign. The variables are signified with this identifier, irrespective of the value it stores.

~~24. What is the size of floppy disk which is used as memory device in computers?~~

24. Which of the following circuit is used as memory device in computers?

- A) Rectifier
- B)  Flip Flop
- C) Comparator
- D) Attenuator

A flip-flop or latch is a circuit that has two stable states and can be used to store information as memory device.

25. A light sensitive device that converts drawing, printed text or other images into digital form is -

- A) Plotter
- B) OMR
- C) Monitor
- D) Scanner