**Blockchain :**

Blockchain

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three types of blockchain

1. P2P networks

2.game theory

3. crytpgraphy

Based on the evolution of Blockchain over the past few years, it is popularly divided into three categories:

Public Blockchain   Bitcoin, Ethereum, Dash, Lisk, Factom, and Blockstream

Private Blockchain Multichain, Blockstack

Consortium/Federated Blockchain Ripple, R3

bankchain is an example of \_\_\_\_\_\_\_. private

Blockchain which is popularly known as ‘for the people, by the people and of the people” is \_\_\_\_\_\_\_\_\_\_\_. public

Private Blockchain is a de-centralized type of Blockchain? F

The three concepts used to explain the foundation of blockchain are \_\_.business network,digital assets and ledger

Bitcoin network would make it impossible to bypass the traditional financial intermediaries. F

Consortium Blockchain provides a faster and more protected ecosystem than a Private Blockchain? T

Mainly how many types of blockchains have emerged after bitcoin introduced blockchain to the world? 3

Digital assets must always be tangible. F

BlockChain provides \_\_\_\_\_\_\_\_\_\_\_ database of every transaction involving value. open decentralized

Cryptography ensures:

Security of the network

Transparency in transactions

Privacy of the individual users

Crypto analysis is used \_\_\_\_\_\_\_\_\_\_\_.to find insecurity

China and Russia were amongst the first few countries to promote bitcoin in their economy – True

Coincap is a budding cryptocurrency.- T

What is Hashing?

Hashing is an algorithm that compresses data of any arbitrary length to a fixed length.

This fixed length output is a smaller representation of the original data and is called Digest or HASH.

HASHes can be used to validate the data that came from as each digest is uniquely tied to the original message.

Which among the following is the most flexible cryptocurrency ether

The value of coins ( litecoin, bitcoin) is same at a particular time. F

Encrypted text is also known as \_\_\_\_\_\_\_\_\_\_\_\_ cipher text

Encryption reduces data security? F

HASH can be used to validate the input T

The two types of cryptography are \_\_\_\_\_\_\_\_\_\_\_\_\_\_. asymertic and symertic

We can buy cryptocurrency. F

Name the first cryptocurrency with computing power contribution gridcoin

The value of cryptocurrency is independent of market conditions such as supply and demand. F

The rate of generation of new bitcoins is constant F

Bitcoins can be purchased in exchange of services T

We may use bitcoin for purchasing merchandise as well T

The output of Hashing is popularly known as \_\_\_\_\_\_\_ digest

The sender and the receiver in a transaction provide miners with a fee F

Which among the following are the advantages of using Bitcoin :All

The higher the computational power, the lower is the difficulty in mining. F

Some of the most popular Blockchain frameworks include the following.

Ethereum

Hyperledger

R3 Corda

You will get to learn more about them in the following set of cards.

Smart contract is a software that controls the movement of digital assets amongst parties based on certain rules of negotiation.

Key features:

Elimination of a third party intervention

Traceable and Irreversible transactions

Self Executing and Self Enforcing

Ether provides greater flexibility than Bitcoin does T

New bitcoins are released every time a transaction is verified T

Ethereum is a digital currency.F

The first smart contract platform is \_\_\_\_\_\_\_. ethereum

Which of the following platform(s) provides a modular architecture hyperleger

Which platform could gain its best use case from financial service industry R3corda

Which platform could gain its best use case from supply chain industryhyperledger

. Both \_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_ automatically check your previous transactions to make sure you have enough bitcoins to send. Ledger and your wallet

One symbol could be substituted with a key using substitution cipher. F

Bitcoin network would make it impossible to bypass the traditional financial intermediaries. F

Blockchain could soon replace central banks? T

Number of bitcoins to be ever created would depend upon demand-supply in the market F

Smart Contracts are reversible--False

Who is the founder of Hyperledger fabric--Miners in blockchain--

One bitcoin could be divided down to \_\_\_\_ decimal point--8

Currencies other than Bitcoin such as Litecoin and Dash are popularly known as---Cryptocurrency

In asymmetric key cryptography, the private key is kept by --??

**Caching Techniques**

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Which type of caching can be used to cache the contest registration page in a website, to reduce the time taken to serve the page for the users?- Application Cache

A cache is a \_\_\_\_\_\_\_\_\_\_\_\_\_\_- Small and Fast memory

In which type of cache, application treats cache as the main data store and reads data from it and writes data to it?- Read Through/Write Through Cache

In which type of cache, application directly interacts with database for data that is not available in the cache?- Cache-aside

Which of the following types of data exhibits Spatial Locality?- Array

A web page displays 10 items per page and has pagination enabled. What would be the recommended way to enable efficient paging?- Use Spatial Cache

Which type of cache reference locality aims at designing cache to store "Recently Referenced Data" assuming that the same data will be requested frequently?- Temporal Locality

Which type of cache reference locality aims at designing cache to store the entire block near the Recently Referenced Data- Temporal Locality & Spacial

Which of the following Cache Eviction techniques consider Locality?- Least Recently Used

Which of the following is true about the cache?- Line size == Block size

Which of the following is true about a well designed cache?- Hit Rate > Miss Rate

Line size in a cache is recommended to be a power of 2.- true

Caching Technique where cache is populated the first time a certain piece of data is requested is called \_\_\_\_\_\_\_\_\_.- Lazy Loading

Primary objective of Cache Coherence is to ensure \_\_\_\_- Data Consistency across all local caches

Which type of cache is recommended to store user preferences for an application with several 100's of concurrent users?- On Demand Cache

When a computer processor does not gets a data item that it requires in cache, then the problem is known as \_\_\_\_\_\_\_\_\_- Cache Hit

While using a Write Back cache, which of the following policies needs to be abided?- Write Allocate

Which Caching Topology is recommended for a read intensive distributed application?- Replicated

A cache has 1024 blocks and each block can contain 1024 bits of data. What is the size of the cache?- 0.125 MB

Cache Performance or Average Memory Access time (AMAT) depends on which of the following?- all

Which Cache would be the best place to cache DNS data?- Proxy

A byte addressable direct-mapped cache with 1024 blocks/lines, and with each block are having 8 32-bit words. How many bits are required for block offset, assuming a

32-bit address?- 10 x, 15 x,

Which of the following topologies implement a "front cache" and a "back cache" that automatically and transparently communicate with each other by using a read-through/write-through approach?- Near Cache

Which of the following is used to determine, if a piece of data in cache needs to be written back to cache?- Dirty Bit = 1

Which of the following in a cache address, specifies the exact location in the cache line where the requested data exists?- Block Offset

For a cache look up to be a Hit, which of the following must be true?- Tag==Block Number and Valid Bit = 1

**APIGEE - API Services**

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Apigee provides \_\_\_\_ services.-all

Apigee cannot modify the backend service implementation without affecting the public API.- False

Companies expose their services as a set of HTTP \_\_\_ -Endpoints

APIs are software interface that allow different applications to talk to one another. - true

The Edge API proxie' s primary consumers are \_ - App developers

Apigee \_\_\_\_ before your API along with policies. - Proxy

Apigee's API platform allows you to \_\_\_\_ your APIs - all

Apigee allows you to restrict the number of result retured from BaaS using the parameter \_\_\_- limit

An API proxy is a can be \_\_ - all

Using \_\_\_\_ will disable security and treat all request without any authentication as a guest. - /\*\*

\_\_\_\_ endpoint interacts with apps that consume your API. -Proxy Endpoint

\_\_\_\_ endpoint interaction with your backend services on behalf of apps.- Target Endpoints

One of the features of the BaaS is \_ - Push Notification

De-selecting the default check box in creating proxy process will make proxy available only through TSL - True

BaaS helps in setting Cloud based data platform without any server side coding. -True

Once data is loaded Apigee automatically creates an/a \_\_\_I to access your data - API

\_\_\_ specifies the target URL to be used by the service call out. - <HTTPTargetConnection><URL>

\_\_\_\_ can program the behavior of the proxies - Policy

Which of the following is not a type of Policy in Apigee? - Insurance

To write arbitrary data to the cache use \_\_ -Populate Cache

\_\_\_ policy smooths traffic spikes by dividing a limit that you define into smaller intervals - Spike Arrest Policy

When you need to explicitly clear a cache during request processing, use \_\_\_ - Invalidate Cache

In Assign message policy \_\_\_\_ creates the named context variables.- <AssignTo>

\_\_\_ is a significant attack vector used by malicious API consumers.-Message content

Authorization header can be sent to the backend service - False

You need to manually create API key for the developer app.- false

\_\_\_ on Apigee Edge adds more programmability to the Edge API platform – all -- **Wrong**

\_\_\_command downloads the express module at the specified version and updates the dependencies list in the package.json file.-npm install express@4.13.3 --save

While requesting for access token you can send consumer key and consumer secret as a parameter in \_\_\_ - Body

VerifyAccessToken operation at the end of API proxy flow.- True

Adding a policy without a flow is possible in Apigee--False

\_\_\_ use of the google Maps APIs to create a mashup of real estate information with interactive maps-- Trulia

Consumer key and consumer secret are created for\_\_----Developer APP

Mashed-up APIs provides value-addition that is greater than the individual APIs---True

For Node.js the \_\_\_\_\_ module and its dependencies are designed. - apigeetool

An API product consist of a collection of RESTful API resources. - True

ans-geolocation

**OnsenUI :**

Any HTML code can be placed inside the <Toolbar> component?--True

The \_\_\_\_\_ component forms the root for the whole page--page

The <ToolBar> component will render a toolbar at the \_\_\_\_\_ of the page--Left

The prop that helps in creating check box and radio button--Type

The switch element can be toggled using tab or drag --True

Onsen supports full screen dialog boxes-- True

Switch element can have more than two states -False

You should use only the Onsen form Components for creating apps--False

Which notification will accept user input--prompt

The function that helps in making fab button Non-scroll able--Renderfixed

<Range> is one of the form Components-- True

The prop that decides maximum number of items to be displayed in drop down -size

Which of the following is the event that is related to Input textbox--onChange

Which of the following is the correct way of specifying an event handler--onClick

onChange is a event related to --<input> and <Select>

The event handlers are specified within--{....}

To disable swipe feature in a menu you should set false to --isSwipable

To open a menu set true to the prop--isOpen

The renderRow and data Source props are mandatory for a list--False

The prop that decide whether a menu is swipe menu or not--Collapse

The unclose and on Open events are related to the component--<SplitterSide>

To create a menu the required components are--all

The renderRow and data Source props are mandatory for a list--False

The default modifier for android devices is --Material

You can set a platform styling manually with --ons.platform.select()

Custom modifiers are specified using keyword --modifier

Which one of the following is not a built in animation interface --SwipeAnimator

The stack pages are initialized using-- InitialRoute

Onsen uses \_ CLI for Developing apps--Monaca

Onsen is used in building apps--Hybrid

Onsen uses different source code for different Platforms. F

Onsen supports only react Framework F

Onsen helps in creating mobile apps using--HTML5, JavaScript and CSS

The function that executes after the app initializes--Ons.rdy()

Ons object needs to be imported from the library--onsenui

How many sections does a toolbar have? 3

The <BackButton> component should be placed outside the <ToolBar> component? F

Any HTML code can be placed inside the <Toolbar> component?--True

The \_ component forms the root for the whole page--<Page>

The <ToolBar> component will render a toolbar at the \_ of the page--left

Onsen supports full screen dialog boxes: true

You should use only the Onsen form Components for creating apps?F

The function that helps in making fab button Non-scroll able--renderFixed

The prop that helps in creating check box and radio button:type

To create a menu the required components are: all

To open a menu set true to the prop:isOpen

The prop that decide whether a menu is swipe menu or not? collapse

The renderRow and data Source props are mandatory for a list? F

To disable swipe feature in a menu you should set false to :Isswipable

The unclose and on Open events are related to the component :splitter side

You can set a platform styling manually with --ons.platform.select()

The default modifier for android devices is :--material

Custom modifiers are specified using keyword :--modifier

To disable swipe feature in a menu you should set false to --isSwipable

<Navigator> component follows \_ based navigation-- stack

Manual styling is done using select()

The <BackButton> component should be placed outside the <ToolBar> component: F

The ons.platform,select() should be called after the app initializes completely F

Onsen has its own CLI environment F

The <ToolBar> component will render a toolbar at the \_ of the page Top

A carousel animation can be specified using animationoption

The \_\_\_\_\_\_ property should be set to a function that returns a <Page> component :Initialroute

\_\_\_\_ helps in popping the top page of the navigator-- Backbutton

arbitrary inputs of components are called \_\_ props

The switch element can be toggled using tab or drag --True

The component that helps in adding a heading to a list--Renderfixed

Fab button can only be rendered in bottom-right or top-left side of page-- True

The <Carosal> Component can render content horizontaly and vertically--True

When a component state data changes, we can use his.setState

Which of the following is not a ons.platform object? – Webview - Wrong

**Data Cleansing**

Consider cars built-in R dataset and find out what is the median of dist variable

36

Identify the function which is part of dplyr package that helps in previewing the data.

glimpse()

tail() function shows \_\_\_ by default 6

\_\_\_\_ can be used to view data distribution of a single variable AND \_\_\_\_ can be used to view relation between 2 variables

hist Plot

print() is the recommended function to view the dataset

No not

Using head function, identify the 8th row of mtcars built-in dataset

10 26

A dataset with columns (country, disease, #ofdeaths) has values Row1 - (CONGO, TB, 28) Row2 - (SPAIN, TB, 2) Row3 - (EGYPT, TB, 0). Is this is a tidy or messy dataset.? Tidy

In a tidy data set \_\_\_ forms a row and \_\_\_\_ forms a column

Observation variable

Which function(s) of dplyr would you use to first subset the columns and then sort them on a particular column?

filter(), arrange()

filter() is for selecting columns and select() is for selecting rows F

\_\_\_ allows to make new variables mutate

If value of time is system time which is 2016-12-21 18:33:31 UTC. What is the output for time+60?

18:34

Can a variable of factor type be converted to a date type No

What is the class of sys.date() and sys.time()

POSIxct

Can a technically correct dataset still be incorrect for data analysis?

Yes, technically correct dataset does not mean data is clean for analysisX

Binning is a method to manage \_\_\_\_\_\_ Noisy data

Ignoring missing values from your dataset is an easier and correct approach than updating the dataset with mean / median values

May be correct only at times when the records have more than 30-40% of the data going missingX

This is the correct approach

This is an incorrect approach

Data cleaning is the most time consuming process in data analysis T

Data munging is \_\_\_\_ A process to clean messy data

\_\_\_\_ is similar to separate() function extract()

What is the class of sys.date() and sys.time() POSIXct

While dealing with missing values in vector x, \_\_\_\_\_ and \_\_\_\_\_ results in the same output is.na(x), na.omit(x)

\_\_\_\_ can be used to identify the existence of a matching pattern in a string str\_extract()(WRONG)

2. While dealing with missing values in vector x, \_\_\_\_\_ and \_\_\_\_\_ results in the same output  is.na(x), na.omit(x)(WRONG)