Am I ready for a **high-tech job**?

Test yourself in five must know fields:

Python, Javascript, Database, Django, Business Intelligence, Artificial Intelligence

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***JavaScript***

Basic:

1. Which one is a list of three colors:
   1. [“red”, “blue”, “black”]
   2. {“red”, “blue”, “black”}
   3. {1: “red”, 2: “blue”, 3: “black”}
   4. {“1”: “red”, “2”: “blue”, “3”: “black”}

2. The external JavaScript file must contain the <script> tag.

1. True
2. False

3. What is the correct way to write a JavaScript array?

1. var colors = (1:"red", 2:"green", 3:"blue")
2. var colors = ["red", "green", "blue"]
3. var colors = "red", "green", "blue"
4. var colors = 1 = ("red"), 2 = ("green"), 3 = ("blue")

4. How do you round the number 7.25, to the nearest integer?

1. Math.round(7.25)
2. round(7.25)
3. Math.rnd(7.25)
4. rnd(7.25)

5. How do you find the number with the highest value of x and y?

1. Math.max(x, y)
2. ceil(x, y)
3. top(x, y)
4. Math.ceil(x, y)

Advanced:

1. What is a factory function?
   1. A function that create objects.
   2. A function that create functions.
   3. A function used in manufacturing
   4. a function needed for inheritance
2. What is true about AJAX?
   1. Used to call a function with a callback function.
   2. The CPU can process other functions while waiting for the callback to be called.
   3. Improve User Experience.
   4. All the above are true.
3. What is true about the following function

f=function(n){if{n<0){alert(n has to be higher then 0)}; if(n==1){return 1}else{return n\*f(n-1)}}

* 1. factorial (5) equal 15
  2. This function has an error
  3. This function can not be a callback function
  4. It is a factory function

1. There are many ways to create an object that inherent from another objection. The following is a valid way to create this object:
   1. Create a function with the following code inside it: ParentObject.call(this);
   2. Create a function with the following first line code: f=function(ParentObject)
   3. Create a function with the following first line code: f=function(Object)
   4. The inherited object must have unique functions.
2. What is the correct jQuery code to set the background color of all p elements to red?
   1. $("p").style("background-color","red")
   2. $("p").css("background-color","red")
   3. $("p").manipulate("background-color","red")
   4. $("p").layout("background-color","red")

***Python:***

**Basic:**

1. What is a correct syntax to return the first character in a string?
   1. x = "Hello".sub(0, 1)
   2. x = sub("Hello", 0, 1)
   3. x = "Hello"[0]
   4. x= "Hello"[1]
2. Which one is NOT a legal variable name?
   1. my\_var
   2. \_myvar
   3. Myvar
   4. my-var
3. Which method can be used to remove any white space from both the beginning and the end of a string?
   1. ptrim()
   2. strip()
   3. len()
   4. trim()
4. Which of these collections defines a TUPLE?
   1. ["apple", "banana", "cherry"]
   2. {"apple", "banana", "cherry"}
   3. {"name": "apple", "color": "green"}
   4. ("apple", "banana", "cherry")
5. Which of these collections defines a List?
   1. [("apple", "banana"), ("orange", "cherry")]
   2. {"apple", "banana", "cherry"}
   3. ["name":"apple", "color":"green"]
   4. ("apple", "banana", "cherry")
6. Which collection is ordered, changeable, and allows duplicate members?
   1. TUPLE
   2. LIST
   3. SET
   4. DICTIONARY
7. How to delete a file using Python?
   1. os.remove()
   2. os.unlink()
   3. Both are correct
   4. Both are incorrect

**Advanced:**

1. What is the difference between a Set and Dictionary(select two correct answers)?
   1. The set is an unordered collection of data types that is iterable, mutable and has no

duplicate elements.

* 1. A dictionary in Python is an unordered collection of data values, used to store data values like a map.
  2. A dictionary is an unordered collection of data types that is iterable, mutable and has no

duplicate elements.

* 1. A set in Python is an unordered collection of data values, used to store data values like a map.

1. What is a lambda function?
   1. A lambda function is an anonymous function. This function can have any number of parameters but can have just one statement.
   2. A lambda function is an anonymous function. This function can have any number of parameters but can have only two statement.
   3. A lambda function is an anonymous function. This function can have two number of parameters but can have just one statement.
   4. A lambda function is an anonymous function. This function can have only one parameter but can have multiple statement.
2. Can we Pass a function as an argument in Python?
   1. True.
   2. False.
3. Does Python support multiple Inheritance?
   1. True.
   2. False.
4. df is a DataFrame with one column. The following command

df = df.apply(lambda x: (x - 5) / (10 – 5)) will

* 1. All numbers between 5 to 10 will be converted to 0 to 1.
  2. Turn all the numbers between 5 to 10
  3. Turn all the numbers between 0 to 1
  4. the command will raise an error

***Database(postgreSQL)***

1. Is PostgreSQL compatible with Cloud?
   1. True
   2. False
2. What is the full form of ORDBMS?
   1. Object-Relational Database Management System.
   2. Object-Relation Database Management System.
   3. Object-Relational Django Management System.
   4. Oracle-Relational Database Management System.
3. Which one is not an operator that is used in PostgreSQL.
   1. Arithmetic operator
   2. Logical operator
   3. Comparison operator
   4. stringify operator
4. State the maximum size of a table on PostgreSQL.
   1. 32TB
   2. 500TB
   3. 50TB
   4. 10TB
5. Which Django commands are used to create tables in PostgreSQL Database?
   1. Python manage.py migrate
   2. python manage.py makemigrations
   3. Both are correct
   4. Only number one is correct

**Django**

***Basic:***

1. How do you create a Django app?
   1. Django-admin startapp appname
   2. python manage.py startapp appname
   3. python startapp appname
   4. Django startapp appname
2. Without virtual environment you cannot create a Django-project.
   1. True
   2. False
3. What is csrf in Full?
   1. Cross-Sites Request Forgery.
   2. Cross-Site Request Forgeries.
   3. Cross-Site Request Forgery.
   4. Cross-Site Requests Forgery.
4. Is Django frontend or backend?
   1. Frontend
   2. Backend
   3. Both are correct
   4. Both are incorrect
5. What is Django?
   1. Django is a high-level Python web framework that encourages rapid development and clean, pragmatic design.
   2. Django is a high-level Python web system that encourages rapid development and clean, pragmatic design.
   3. Django is a high-level C++ web framework that encourages rapid development and clean, pragmatic design.
   4. Django is a framework that encourages rapid development and clean, pragmatic design.

**Advanced:**

1. which one is not an exception class present in Django.
   1. MultipleObjectsReturned
   2. ViewDoesNotExist
   3. SuspiciousOperation
   4. All are correct.
2. How would you query all the items in the database table?
   1. XYZ.object.all()
   2. XYZ.objects.get.all()
   3. XYZ.objects.all
   4. XYZ.objects.all()
3. How do you query one item from the database table?
   1. XYZ.objects.get(id=’1’)
   2. XYZ.objects.all(id=1)
   3. XYZ.objects.get(id=1)
   4. XYZ.objects.get(1)
4. How can you include and inherit files in your application?
   1. {% extend 'template\_name.html' %}
   2. {{ extends 'template\_name.html' }}
   3. {% extends 'template\_name.html' %}
   4. {% template\_name.html %}
5. Which one is not Django’s security feature?
   1. SQL injection protection
   2. Cross-site request forgery (CSRF) protection
   3. Enforcing SSL/HTTPS
   4. Session security
   5. Unified Resource Locator protection

Business Intelligence

Basic:

1. which of these is a prominent Business Intelligence tool?
   1. Django
   2. Intellect tool
   3. python
   4. Power BI

Artificial Intelligence