**Test Paper JavaScript, ES 6 and Node.js**

1. Which method of the string object is used to divide the string into separate strings?
2. Which methods of the array is used to iterate over the array (mentioned all those are used in iteration)?
3. Which method of array is used to remove the first element from array?
4. Which method is used to add a new element at the first position in array?
5. What is the difference between forEach() and map() method of array?
6. What is the new concept provided in ES 6 for concatenation of string?
7. When should we use Arrow (=>) operator?
8. How to read multiple HTML UI elements using the ‘class’ attribute?
9. If the HTML page is having the ‘window.onload’ event and the JavaScript file reference that is using Immediately Invoked Function Expression (IIFE) then whart will be executed first onload event or IIFE?
10. How to define public method in function reference object in JavaScript?
11. When should we use rest parameters?
12. What will be the output of the following JavaScript Code

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| --- |
| function\* myGenerator(start=0,end=100, step=1){  let count= 0;  for(let i=0; i<end;i++){  count++;  yield i; // read the object and advance to next  }  return count;  }  const generator = myGenerator(1,10,1);  let res = generator.next();  while(!res.done){  console.log(res.value);  res = generator.next();  }  console.log(`Read the Sequence ${res.value}`); |

1. What is the difference between generators and iterators?
2. Which collection will be used to store data in Key/ Value pair?
3. What will be the output of the following code

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| --- |
| let setObjects = new Set();  setObjects.add({id:101, name:'A'});  setObjects.add({id:102, name:'B'});  setObjects.add({id:103, name:'C'});  setObjects.add({id:101, name:'A'});  console.log(`Size of setObjects = ${setObjects.size}`);  console.log(setObjects); |

1. What will be the output of the following code?

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| --- |
| var x = 123; // number  var y = "123"; // string  console.log(x == y); // returns 'true' value equality uses parser to read values instead of type of value  console.log(x === y); // return 'fasle', === is type and then value base equaity aka 'deep equality'  console.log(x !== y); // return true, !== not equal to |

1. What will be the result of the following code?

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| --- |
| var obj = {x:10};  console.log('obj.x = ' + obj.x);  var obj1 = obj; // Same reference pointers  console.log('After equating obj.x to obj1, the obj.x = ' + obj.x + ' and obj1.x = '+ obj1.x);  obj1.x = 900;  console.log('After updating obj1.x to 900 , the value ob obj1.x = ' + obj1.x + ' and value of obj.x = ' + obj.x); |

1. What will be the result of the following code?

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| --- |
| for(var i=0;i<10;i++) {  console.log('Inside loop i = ' + i);  }  console.log('Ouside loop i = ' + i);  i++;  console.log('Ouside loop after increament i = ' + i); |

1. What will be result of the following code?

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| --- |
| let values = ["Mahesh", "Suprotim", "Vikram", "Subodh", "Sumit", "Pankaj", "Saket", "Manish", "Abhijit", "Kumarmangalam"];  let sortByLengt = values.sort((v1,v2)=>{  return v1.length - v2.length;  });  console.log(JSON.stringify(sortByLengt));  sortByLengt = values.sort((v1,v2)=>{  return v2.length - v1.length;  });  console.log(JSON.stringify(sortByLengt)); |

1. What is the new iteration loop introduced by ES 6 to iterate over the array?
2. What will be result of the following code?

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| --- |
| let arr = [10,20,30];  console.log(arr);  arr = [...arr,40,50,60,70,80];  console.log(arr); |

1. In node.js what is the use of @types/node package?
2. What is the use of **require()** object in Node.js?
3. What is the role of **module.exports** in Node.js?
4. What is the use of **request.url**  property of the Request object of the **createServer()** method of the http module?
5. Which of the Request object of the **createServer()** method of the http module is used to check if the request get or post?
6. When should we use **async** methods in Node.js or in ES 6?
7. Can we execute awaitable state in method that is node marked as async?
8. What is the advantage of the **q** module on Node.js?
9. What is the use of http.request() method in Node.js?
10. What method of the Sequelize’s Model object is used to delete the record from table?
11. What method the Sequelize’s Model object is used to add a new record in table?
12. What method the Sequelize’s Model object is used to search record from table based on condition?
13. What is the difference between AUTO\_INCREMENT and Primary key in MySQL?
14. Can we use AUTO\_INCREMENT key as Primary key?
15. How to modify the column in MySQL table write a small script?
16. What command is used to generate the JavaScript Models from MySQL database using Sequlize?
17. What is the mandatory package must be installed along with Sequlize and sequlize-auto to generate JavaScript models from MySQL database?
18. What is the use of DataType class in Sequlize?
19. What is the use of Sequlize.query() method?