UNIT-II Assignment-Cum-Tutorial Questions

A. 1.	Objective Questions Who is the Father of JSON?	[]		
	a) Douglas Crockford				
	b) Rasmus Lerdorf				
	c) Douglas Michel				
	d) Dennis Ritchie				
2.	JSON stands for []				
۷.	a) Java Standard Output Network	L	J		
	b) JavaScript Object Notation				
	c) JavaScript Output Name				
	d) Java Source Open Network				
3.	What kind of format is JSON, and what does the acronym mean? [a) A lightweight data-encoding framework. Java Omnipresent Notat] tion.			
	b) A lightweight data-interchange format. JavaScript Object Notation	n.			
	c) A lightweight data-interchange format. Java Objective Notion.				
	d) A lightweight database framework. JavaScript Object Notation.				
4.	Which of these is a benefit JSON has over XML? a) JSON is more forgiving of poor formatting	[]		
	b) JSON has less markup requirements and therefore is lighter than	XML			
	c) JSON can be written poorly and still be parsed				
	d) JSON does not need to be stored in a file to be sent remotely				
5.	What function will convert a JavaScript object to a JSON string? a) JSON.text() b) JSON.serialize() c) JSON.toString() d) JSON.stringify()				
6.					
	JSON?				
	a) ASCIIb) Plain-text				
	c) SQL				
	d) XML				
7.	Which is correct format of writting JSON name/value pair []			
•	a) 'name : value'	,			
	h) name = 'value'				

		name = "value"
Q		"name": "value" nat error does JSON.parse() throw when the string to parse is not valid JSON?
ο.	VVI	lat error does 35014.parse() throw when the string to parse is not valid 35014.
		[]
	a)	ReferenceError
	b)	EvalError
	c)	SyntaxError
	d)	TypeError
9.	Wł	nich of the following is not a type in JSON?
	a)	date
	b)	Object
	c)	Array
	d)	String
10.	Wł	nich of following statement is false about the space parameter in
	JSO	ON.stringify() ?
		[]
	a)	It controls spacing in the resulting JSON string
	b)	It is an optional parameter
	c)	It removes whitespace
	d)	All are false
11.	Wł	nich of the following code will return a valid JSON object? [
	a)	JSON.parse('({"FirstName": "John", "LastName": "Doe"})');
	b)	JSON.parse("{'FirstName': 'John', 'LastName':'Doe'}");
	c)	JSON.parse("({'FirstName': 'John', 'LastName':'Doe'})");
	d)	JSON.parse('{"FirstName": "John", "LastName":"Doe"}');
12.	W	hich of the following is NOT a valid JSON object?
	a)	{ "name": "Smiley", "age": 20, "phone": "888-123-4567",
		"email": smiley@xyz.com,
		"happy": true
		}
	b)	{

```
"age": 20,
       "phone": "888-123-4567",
       "email": "smiley@xyz.com",
       "happy": "true"
       }
   c) {
       "name": "Smiley",
       "age": 20,
       "phone": null,
       "email": "null",
       "happy": true
   d) {
       "name": "Smiley",
       "age": 20,
       "phone": [ "888-123-4567", "888-765-4321" ],
       "email": "smiley@xyz.com",
       "happy": true
13. Which of these is proper a JSON array?
                                                                  Γ
                                                                         1
   a) { "letters" : [ "a", "b", "c"; ] }
   b) { 'letters' : {"a", "b", "c" } }
   c) { "letters" : [a, b, c] }
   d) { "letters" : [ "a", "b", "c" ] }
14. In the below notation, Employee is of type
           { "Employee": [ "Amy", "Bob", "John" ] }
                                                                                1
   a) Not a valid JSON string
   b) Array
   c) Class
   d) Object
15. Which answer represents the following order of TYPES?
                                                                         ]
              Object, String, Boolean, Number
   a) "{ }", "a string", "false", "0"
   b) [], 0, "true", "0"
   c) {}, "0", false, 0
   d) {}, hello, "false", "0"
```

"name": "Smiley",

```
16. Which of the following code will throw an error?
         Γ
   a) JSON.parse(null);
   b) JSON.parse('{}');
   c) JSON.parse(undefined);
   d) JSON.parse('[]');
17. What is the value of json in the following code?
              1
         var obj = { fruit: 'apple', toJSON: function () { return 'orange'; } };
   var json = JSON.stringify({x: obj});
   a) {"x":"orange"}
   b) {"fruit":"apple"}
   c) {"x":"apple"}
   d) {"fruit":"orange"}
18. What is the value of json in the following code?
   var cars = [];
   cars[0] = 'Ford';
   cars[1] = 'Toyota';
   cars[2] = 'BMW';
   var json = JSON.stringify({x: cars});
   a) {"x":['Ford','Toyota','BMW']}
   b) {"x":{"Ford","Toyota","BMW"}}
   c) {"x":["Ford","Toyota","BMW"]}
   d) {"cars":["Ford","Toyota","BMW"]}
19. Consider the following JSON data:
   { "A": [1,1,2,2], "B": {"C":3, "D":4}, "E":[5,6,true], "F": {"G": [null,7]} }
Which of the following could NOT be included as part of a JSON Schema
specification that is satisfied by the JSON data above? Assume that every letter ("A",
"B", "C", ...) appears in the JSON Schema specification exactly once.
   a) "A": {"type":"array", "minItems":4, "maxItems":4, items":{"type":"integer"}}
   b) "A": {"type":"array", "maxItems":10, "items":{"type":"integer"}}
   c) "B": {"type":"object", "properties": {"C": {"type":["integer","null"]},
```

20. What two structures is JSON built on?

. 0 1

1

ſ

- a) A collection of name/value pairs, and an ordered list of values, or array.
- b) A collection of object/item pairs, and an ordered list of pairs, or array.
- c) A collection of name/value objects, and an ordered list of objects, or array.
- d) A collection of native-value pairs, and an ordered list of arrays, or values.

B. Subjective Questions:

- 1. Mention what is the rule for JSON syntax rules? Give an example of JSON object?
- 2. Explain JSON syntax rules?
- 3. What are the advantages of JSON over XML?
- 4. Create a JSON object that represents an Item with properties ItemNo, ItemName, Quantity and Price. And construct its tree structure.
- 5. Demonstrate the purpose of JSON.parse() method with an example.
- 6. Explain in detail various data types that are supported by JSON with an example.
- 7. Illustrate how to create, access and modify elements in an Array using JSON.
- 8. Write one application which demonstrates nested objects and nested arrays in JSON.
- 9. Illustrate how to send, receive and store data using JSON.
- 10. Make a list of benefits and drawbacks of JSON.