

### Q.1 Fill in the blanks

When you enter <http://google.com> in the Chrome browser, it sends a request to a server

- a) The protocol used in this request is \_\_\_\_\_
- b) The request method is \_\_\_\_\_
- c) The port in this request is \_\_\_\_\_

What is the MIME type for

- a) Plaintext \_\_\_\_\_
- b) HTML documents \_\_\_\_\_
- c) JSON \_\_\_\_\_
- d) JPEG images \_\_\_\_\_

**Q. 2 What is the output of the following code (say - written in file.js) when run with node (\$node file.js)**

```
var b = 40;  
var c = 50;  
global c = 60;  
this.a = 40;  
b = 50;  
e = 60;
```

```
console.log(b);  
console.log(c);  
console.log(d);  
console.log(e);
```

### Q.3

|  |   |
|--|---|
| <b>file1.js</b><br><br>this.a = 5;<br>this.b =4;<br><br>exports.c = 6;<br>exports.d =7;<br><br>module.exports.e = 8;<br>module.exports f = 9;<br><br>console.log("Hi from 1"); | <b>file2.js</b><br>console.log("Hi from 2");<br><br>this.a = 5;<br>this.b =4;<br><br>exports = {c:6};<br>exports.d =8;<br><br>module.exports.e = 8;<br>module.exports f = 9;  |
| <b>file3.js</b><br><br>this.a = 5;<br>this.b =4;<br>console.log("Hi from 3");<br>module.exports = {e:8, f:9};<br><br>exports.c = 6;<br>exports.d =7;                           | <b>file4.js</b><br><br>var f1 = require("./file1.js");<br>var f2 = require("./file2.js");<br>var f3 = require("./file3.js");<br>var f4 = require("./file4.js");<br>var f5 = require("./file2.js");<br>var f6 = require("./file2.js");<br>console.log(f1);<br>console.log(f2);<br>console.log(f3);<br>console.log(f4);<br>console.log(f5);<br>console.log(f6); |

Assume file1.js, file2.js, file3.js, file4.js are all in the same directory. What is the output when we run **\$node file4.js** in this directory

#### Q.4

Fill blanks in the code : this is a Node based HTTP server running on localhost:3000 that returns

- a JSON object {“a”:”1”, “b”:”2” } as a response when you load <http://localhost:3000/api> in the browser
- A plain text “Hello World” as a response when you load <http://localhost:3000/plain>
- 404 otherwise

```
var _____ = require("http");

p.createServer(

  function( _____ , _____ ){

    if (req.url == "/api") {

      res.writeHead( _____ , {'Content-Type': _____ } );
      var obj = {a:1, b:2};
      var json_string = _____ ;
      _____(json_string);
    }

    if (req.url == _____ ) {

      res.writeHead( _____ , {'Content-Type': _____ } );
      var txt = "Hello World";
      _____(txt) ;
    }

    res.writeHead( _____ );

    _____ ;

  }
).listen( _____ , _____ );
```

**Q.6** Following is a rewrite of the code in Q.5 : this time using “express” .

- 1) Fill the “Gap”.
- 2) Fill the blanks in the first and last line of the code

---

```
app = express.createServer();
```

```
// Gap Starts Here
```

```
// Gap Ends Here
```

```
app.get('*', function(req, res){  
  res.send('Oops', 404);  
});
```

```
app.listen( _____ , _____ )
```