金門大學 資訊工程系 **101** 學年度下學期 網路程式設計 期末考 出題者：陳鍾誠

考生姓名：　　　　　　　　　　學號：　　　　　　　　　　得分：

以下題目學號為奇數同學做奇數題，學號為偶數同學作偶數題，共 **100** 題，每人做 **50** 題，每題 **2** 分。

名詞解釋：

JavaScript 相關

1. **JavaScript**
2. **Node.js**
3. **express** 套件
4. **regular expression**
5. **AJAX**
6. **eval** 函數
7. **jQuery**
8. **npm**
9. **module.exports**
10. **callback**
11. **closure**
12. **JSON**

HTML/CSS 相關

13. **DHTML**
14. **DOM**
15. **innerText**
16. **innerHTML**
17. **Form**
18. **form** 中的 **method** 屬性
19. **form** 中的 **action** 屬性
20. **form** 中的 **submit** 之用途
21. **POST**
22. **GET**
23. **CSS**
24. **style**
25. **class**
26. **id**

程式解釋 **1**：

```
1. <script type="text/javascript">
2. function obj() {
3.   this.x = 3;
4.   this["y"] = 5;
5.   this.sum = function() { return this.x + this.y; }
}

6. var o = new obj();

7. document.write("o['x']="+o['x']+" y="+o.y+" sum()="+o.sum());
</script>
```

程式解釋 2：

```
<script type="text/javascript">
8. var george = {
9.   "name": "George",
10.   "age": 25,
11.   "friends": [
12.      {"name": "John", "age": 22 },
13.      {"name": "Mary", "age": 28 }
     ]
};

14. document.write("george.age="+george.age+"<br/>");
15. document.write("george.friends:\n<ol>");
16. var friends = george.friends;
17. for (i in friends)
18.   document.write("<li>"+friends[i].name+" is "+friends[i].age+"years old!</li>");
19. document.write("</ol>");
</script>
```

程式解釋 3：

```
<script type="text/javascript">
var a=3, b=5;
20. var result = eval('a+b');
21. alert('a+b='+result);
</script>
```

程式解釋 4：

```
 <html><body>
   <div id ="hi"><b>你好!</b></div>
22.   <input type="button" value="hi.innerText"
       onclick="alert(document.getElementById('hi').innerText)");
23.   <input type="button" value="hi.innerHTML"
       onclick="alert(document.getElementById('hi').innerHTML)");
</body></html>
```

程式解釋 5：

```
<html><body>
   <div id ="hi"><b>你好!</b></div>
24.    <input type="button" value="hi.show()"
onclick="document.getElementById('hi').style.visibility='visible'");
25.    <input type="button" value="hi.hide()"
onclick="document.getElementById('hi').style.visibility='hidden'");
</body></html>
```

程式解釋 6：

```
<html><head>
<style>
26.  .menu   { background-color:black; color:white; padding:10px;
       vertical-align:top; width:100px; list-style-type:none; }
27.  .menu a { color:white; text-decoration:none; }
</style>
<script type="text/javascript">
28. function show(id) {  document.getElementById(id).style.visibility='visible'; }
29. function hide(id) {  document.getElementById(id).style.visibility='hidden'; }
</script>
</head>
30.  <body onload="JavaScript:hide('popup1');hide('popup2');">
31.      <ul onmouseover="show('popup1');"  onmouseout="hide('popup1')"
       style="position:absolute; left:100px; top:20px">
      <li id="menu1" class="menu">menu1</li>
      <ul id="popup1" class="menu">
32.         <li><a href="JavaScript:alert('1.1');">menu 1.1</a></li>
33.         <li><a href="JavaScript:alert('1.2');">menu 1.2</a></li>
      </ul>
    </ul>
</body></html>
```

程式解釋 7 – 網路記事本

檔案：note.htm

```
<!DOCTYPE html><html><head>
34. <meta charset="utf-8" />
</head><body>
35.  <form method="POST" action="/save/[[?path?]]">
36.      <label>檔案路徑：[[?path?]]</label><br>
37.       <textarea name="note" rows=30 cols=80>[[?fileText?]]</textarea><br/>
38.      <input type="submit" value="送出"/>
 </form>
</body></html>
```

檔案：save.htm

```
<!DOCTYPE html><html><head>
<meta charset="utf-8" />
</head><body>
39. save:path=<a href="/note/[[?path?]]">[[?path?]]</a>
40. <pre>[[?fileText?]]</pre>
</body>
</html>
```

檔案：**NoteServer.js**

```
var path = require('path');
var fs = require("fs");
41. var qs = require('querystring');
42. var express = require("express");
43. var app = express();
44. app.listen(80);
45. var noteTemplate = "";
46. fs.readFile("note.htm", "utf8", function(err, file) {   noteTemplate = file; });
47. fs.readFile("save.htm", "utf8", function(err, file) {   saveTemplate = file;});
48. var error = function(err, res) {
49.     if (err) {
50.        res.writeHead(404, {'Content-Type': 'text/plain'});
51.        res.end();
    }
}
52. var response = function(res, type, text) {
53.    res.writeHead(200, {'Content-Type': type});
54.    res.write(text);
55.    console.log(text);
56.    res.end();
}
57. app.post('/save/:path', function(req, res){
58.    console.log('save ' + req.params.path);
59.    var path = "./"+req.params.path;
60.    formData = '';
61.    req.on("data", function (chunk) {  formData += chunk;  });
62.    req.on("end", function () {
63.        form = qs.parse(formData);
64.        fs.writeFile(path, form.note, function (err) {
65.          if (!err)
66.            response(res, "text/html", saveTemplate.replace("[[?path?]]", req.params.path)
67.            .replace("[[?path?]]", req.params.path)
68.            .replace("[[?path?]]", req.params.path).replace("[[?fileText?]]", form.note));
       });
    });
});
69. app.get('/note/:path', function(req, res){
70.     console.log('note ' + req.params.path);
71.     var path = "./"+req.params.path;
72.     fs.readFile(path, "utf8", function(err, file) {
        if (err)
73.      response(res, "text/html", noteTemplate.replace("[[?path?]]", req.params.path)
           .replace("[[?path?]]", req.params.path).replace("[[?fileText?]]", "檔案不存在，可修改後存檔！"));
       else
74.      response(res, "text/html", noteTemplate.replace("[[?path?]]", req.params.path)
            .replace("[[?path?]]", req.params.path).replace("[[?fileText?]]", file));
    });
});
console.log('start NoteServer\n');
```