



P.E.S. College of Engineering, Mandya - 571 401
 (An Autonomous Institution affiliated to VTU, Belagavi)
Fifth Semester, B.E. - Electronics and Communication Engineering
Semester End Examination; Feb. - 2021
Java and Web Technologies (Technical Skills - I)

Time: 2 hr.

Max. Marks: 50

Course Outcomes

The Students will be able to:

CO1: Ability to understand and verify basic concepts of embedded theory, java programming and system verilog programming with experimentation.

CO2: Ability to analyse and discriminate intricacies of embedded theory, java programming and system verilog programming.

CO3: Ability to use modern tools and get tuned to industrial requirements.

CO4: Will be able to develop small projects through knowledge gained out of practical session.

CO5: Will learn professional ethics, project management capabilities and working in a team.

Note: All questions are compulsory and each question carries TWO marks.

Q. No.	Questions	BLs	COs	POs
1.	Which of the following is not a Java features? a) Dynamic b) Architecture Neutral c) Use of pointers d) Object-oriented	L2	CO1	
2.	Predict the output of following Java program class Main { public static void main(String args[]) { try { throw 10; } catch(int e) { System.out.println("Got the Exception " + e); } } }	L3	CO1	
	a) Got the Exception 10 b) Got the Exception 0 c) Compiler Error d) None of these			
3.	What will be the output of the following program? public class Test2 { public static void main(String[] args) { StringBuffer s1 = new StringBuffer("Entertainment"); s1.setCharAt(1,'i'); s1.setCharAt(7,'d'); s1.setCharAt(12,'m'); System.out.println(s1); } }	L5	CO1	
	a) Eitertdinmenmt b) Eitertaidnmenmt c) Eitertadnmenm d) Entertadnmenmt			
4.	The types of access specifiers for classes available in java are: a) Public, Special, Default & Private b) Public, Protected, Default & Double c) Public, Protected, Secure & Private d) Public, Protected, Default & Private	L1	CO1	
5.	Which of the following is/are true about constructors in Java? I. Constructor name should be same as class name. II. If you don't define a constructor for a class, a default parameter less constructor is automatically created by the compiler. III. The default constructor calls super() and initializes all instance variables to default value like 0, null. IV. If we want to parent class constructor, it must be called in first line of constructor.	L2	CO1	
	a) Only I b) Only I & II c) Only I, II & IV d) All the statements are true			

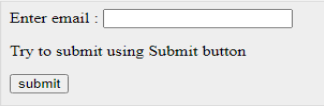
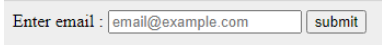

6. Where can you put the JavaScript code in HTML?
 a) Between the body tag of html b) Between the head tag of html L4 CO2
 c) In .js file (external JavaScript) d) All of the above
7. What is the HTML tag under which one can write the JavaScript code?
 a) <javascript> b) <scripted> c) <script> d) <js> L1 CO2
8. What can JavaScript do with respect HTML?
 a) JavaScript can change HTML content L2 CO2
 b) JavaScript can change HTML attributes
 c) JavaScript can change CSS style d) All of the above
9. What is the correct syntax for referring to an external script called "pesce.js"?
 a) <script src="pesce.js"> b) <script srchref="pesce.js"> L1 CO2
 c) <script src ref="pesce.js"> d) <script name="pesce.js">
10. Predict the output of the following JavaScript code:

```
<script type = "text/javascript">
a = 8 + "8";
document.write(a);
</script>
```

 a) Compilation Error b) 88 c) 16 d) Run Time Error L3 CO2
11. Which of the following attribute triggers event when an element is invalid, in HTML?
 a) onhaschange b) oninput c) oninvalid d) onvalidate L1 CO3
12. Which among the following is correct HTML code for making a checkbox?
 a) <checkbox> b) <input type = "checkbox"> L1 CO3
 c) <check> d) <input type = "check">
13. Which of the following attributes sets an element as an item of microdata?
 a) itemprop b) itemscope c) itemref d) itemtype L1 CO3
14. What is the correct HTML tag for inserting background music?
 a) <bgsoundsrc = "/ background.mp3"/> L3 CO3
 b) <bgsound = "/ background.mp3"/>
 c) <backgroundsoundsrc = "/ background.mp3"/> d) None of these
15. Which of the following is true, with respect to a HTML page?
 a) Extensive use of Flash is bad from usability point of view L1 CO3
 b) Design should be free from clutter
 c) Looks are more important than Usability d) a & b
16. How does PHP work
 a) The PHP code is compiled on the server and sent to the client as an executable
 b) The PHP code is compiled on the server and sent to the client as HTML L2 CO4
 c) The server invokes a PHP processor to interpret PHP code
 d) It doesn't work in any of these ways.
17. Which of the following statements are TRUE about an SQL query?
 P : An SQL query can contain a HAVING clause even if it does not have a GROUP BY clause
 Q : An SQL query can contain a HAVING clause only if it has a GROUP BY clause L2 CO4
 R : All attributes used in the GROUP BY clause must appear in the SELECT clause
 S : Not all attributes used in the GROUP BY clause need to appear in the SELECT clause
 a) P and R b) P and S c) Q and R d) Q and S

18. What are the uses of PHP?
 a) It is a server-side scripting language used to design dynamic websites or web applications. L2 CO4
 b) It can work with databases, sessions, send and receive cookies, send emails, etc.
 c) It can be used to set the restriction to the user to access the web page.
 d) All of the Above
19. How does the Start and Finish of a PHP block of code is handled?
 a) Start: `?php` and ends with `? |` Block: `?php [--Content of PHP code--] ?>`
 b) Start: `<?php` and ends with `?>` | Block: `<?php [--Content of PHP code--] !>` L4 CO4
 c) Start: `<!php` and ends with `!>` | Block: `<?php [--Content of PHP code--] ?>`
 d) None of these
20. What are the different types of loop supported in PHP? PHP supports four different types of loop which are listed below: L1 CO4
 a) for loop b) do-while loop c) foreach loop d) All of the above
21. What is the output of the following HTML program?

```
<html>
<body>
<form action = "/cgi-bin/html5.cgi" method = "get">
    Enter email : <input type = "text" name = "newinput" required/>
<p>Try to submit using Submit button</p>
<input type = "submit" value = "submit" />
</form>
</body>
</html>
```

L5 CO5
- a)  b) 
- c)  d) None of these
22. What will be the output of the following program?

```
public class Test {
public static void main(String[] args) {
int count = 1;
while (count <= 15) {
System.out.println(count % 2 == 1 ? "***" : "+++++");
++count;
} // end while } // end main }
```

L5 CO5
 a) 15 times *** b) 8 times *** and 7 times +++++
 c) 15 times +++++ d) Both will print only once
23. The given program has few errors, Identify the number of errors, If the following program is written to obtain the output as: **“8”**

```
var grade='C';
var result;
switch(grade) {
case: A {
    Result is "10"; break; }
case'B': {
    result+=" 9"; break; }
case'C': {
    result+=" 8"; }
default:
    result+=" 0"; }
document.scan(result);
```

L5 CO5
 a) NIL b) Four c) Six d) Five

