

LVL2 SET A TEST 4 PROGRAMMING

Hitbullseye

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Question No: 1

DIRECTIONS for the question: Mark the best option:

A multilevel page table is preferred in comparison to a single level page table for translating virtual address to physical address because

it reduces the memory access time to read or write a memory location

it helps to reduce the size of page table needed to implement the virtual address space of a process.

it is required by the translation look aside buffer

it helps to reduce the number of page faults in page replacement algorithms

Explanation The page containing the top level of the page table resides in memory. Other pages are loaded from the hard disk on demand.

Correct answer is: B

Question No: 2

DIRECTIONS for the question: Mark the best option:

Which of the following function of the String object returns the character in the string starting at the specified position via the specified number of characters?

slice()

split()

substr()

search()

Explanation The method " Substr()" in the javascript is used to return the characters in the string starting at the specified position via the specified number of the characters.

Correct answer is: C

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Question No: 3

DIRECTIONS for the question: Mark the best option:

Which of the following variables takes precedence over the others if the names are the same?

Global variable

The local element

The two of the above

None of the above

Explanation In JavaScript, the local variable takes precedence over the global variable if the name of both local and global variables is the same.

Correct answer is: B

Question No: 4

DIRECTIONS for the question: Mark the best option:

Which of the following number object function returns the value of the number?

toString()

valueOf()

toLocaleString()

toPrecision()

Explanation The method " valueOf()" returns the value of the parameter that was passed in it.

Correct answer is: B

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Question No: 5

DIRECTIONS for the question: Mark the best option:

Disk scheduling involves deciding

which disk should be accessed next

the order in which disk access requests must be serviced

the physical location where files should be accessed in the disk

none of the above

Explanation

Correct answer is: B

Question No: 6

DIRECTIONS for the question: Mark the best option:

Which one of the following is used for calling a function or a method in the JavaScript:

Property Access Expression

Functional expression

Invocation expression

Primary expression

Explanation The invocation expression is one of the JavaScript's syntax which is used for making a function call or calling a method. It always starts with the function expression which identifies the certain function to be called or executed.

Correct answer is: C

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Question No: 7

DIRECTIONS for the question: Mark the best option:

Register renaming is done in pipelined processors

as an alternative to register allocation at compile time

for efficient access to function parameters and local variables

to handle certain kinds of hazards

as part of address translation

Explanation It effectively handles dependencies introduced by - read after write (RAW), write after read (WAR) or write after write (WAW).

Correct answer is: C

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Question No: 8

DIRECTIONS for the question: Mark the best option:

Dirty bit is used to show the

page with corrupted data

wrong page in the memory

page that is modified after being loaded into cache memory

page that is less frequently accessed

Explanation

Correct answer is: C

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Question No: 9

DIRECTIONS for the question: Mark the best option:

Which of the following is the correct output for the following JavaScript code:

1. var x=3;
2. var y=2;
3. var z=0;
4. If(x==y)
5. document.write(x);
6. elseif(x==y)
7. document.write(x);

8. else
9. document.write(z);

3

0

Error

2

Explanation The "if-and if" statement is used to examine more than one condition. This is an extension of the "if-else" statement and is also known as the "if-else ladder". We can extend the "if-else" statement to check several conditions.

Correct answer is: B

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Question No: 10

DIRECTIONS for the question: Mark the best option:

Which of the following is the correct output for the following JavaScript code:

```
1. function display1(option)  
2. {  
3.     return(option ? "true" : "false");  
4. }  
5. bool ans=true;  
6. console.log(display1(ans));
```

False

True

Runtime error

Compilation error

Explanation In the following JavaScript code, the "?" is being used which is also known as ternary operator". Here it is used to choose one option as a choice among the given two options. However, it is often used to write shorter and simple code because it can be used in the place of "if else" statements.

Correct answer is: B

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Question No: 11

DIRECTIONS for the question: Mark the best option:

What will happen, if the following JavaScript code is executed?

1. var count =0;
2. while (count <10)
3. {
4. console.log(count);
5. count++;
6. }

An error is displayed

An exception is thrown

The values of count variable are logged or stored in a particular location or storage

The value of count from 0 to 9 is displayed in the console

Explanation

The function "console.log ()" used in the above function is one of the pre-defined functions of JavaScript. It takes values as arguments passed to it, and displays that value in arguments inside the console when the code is executed.

Correct answer is: C

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Question No: 12

DIRECTIONS for the question: Mark the best option:

Which of the following is the correct output for the following JavaScript code:

1. varx=5,y=1
2. var obj ={ x:10}
3. with(obj)
4. {
5. alert(y)
6. }

1

Error

Explanation The output of the above snippet code will be one because, first of all, the interpreter will search "obj" for the property (y). But it fails to find "obj" for property "y," so it chooses a value from outside the object, which is available within the given code.

Correct answer is: A

Question No: 13

DIRECTIONS for the question: Mark the best option:

The "new Point(3,2)", is a kind of _____ expression

Object Creation Expression

Primary Expression

Invocation Expression

Constructor Calling Expression

Explanation The object creation expression creates a new object and also invokes a method called constructor in order to initialize the properties of that object. The object creation expressions are just like the invocation expressions except that they prefixed with a keyword commonly known as New.

Correct answer is: A

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Question No: 14

DIRECTIONS for the question: Mark the best option:

In the JavaScript, which one of the following is not considered as an error:

Syntax error

Missing of semicolons

Division by zero

Missing of Bracket

Explanation Yes, you heard right that division of any integer by zero is not an error in the JavaScript. It just prints the infinity as a result. However, there is an exception in JavaScript, dividing zero with zero will not have any defined number/value so, the result of this specific operation is a special value "Not a Number" (or NaN) and printed as NaN.

Correct answer is: C

Question No: 15

DIRECTIONS for the question: Mark the best option:

Fence register is used for

CPU protection

memory protection

file protection

All of the above

Explanation

Correct answer is: B

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Question No: 16

DIRECTIONS for the question: Mark the best option:

Which one of the following is correct output for the following given JavaScript code:

1. functionheight()
2. {
3. var height=123.56;

```
4. var type =(height>=190)?"Taller":"Little short";  
5. return type;  
6. }
```

123.56

Taller

190

Little shorter

Explanation In the above given code, the ternary operator is used that works on the 3 operands. The statement in the following code, initialize the type variable with value "little shorter" that is returned through the function.

Correct answer is: B

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Question No: 17

DIRECTIONS for the question: Mark the best option:

A thread is usually defined as a "light-weight process" because an operating system (OS) maintains smaller data structures for a thread than for a process. In relation to this, which of the following is TRUE?

On per-thread basis, the OS maintains only CPU register state.

The OS does not maintain a separate stack for each thread.

On per-thread basis, the OS does not maintain virtual memory state.

On per-thread basis, the OS maintains only scheduling and accounting information.

Explanation Threads need to swap only the registers and the stack. Threads share code and data memory.

Correct answer is: C

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Question No: 18

DIRECTIONS for the question: Mark the best option:

"An expression that can legally appear on the left side of an assignment expression." is a well known explanation for variables, properties of objects, and elements of arrays. They are called _____.

Properties

Prototypes

Definition

Ivalue

Explanation The term "Ivalue" is one of the historical terms which states that "an Expression that can appear legally on the left-side of the Assignment Expression". The properties of objects, elements, and variables are Ivalues in JavaScript.

Correct answer is: D

Question No: 19

DIRECTIONS for the question: Mark the best option:

Which of the following statements are true?

- I. Shortest remaining time first scheduling may cause starvation
- II. Preemptive scheduling may cause starvation
- III. Round robin is better than FCFS in terms of response time

I only

I and III only

II and III only

I, II and III

Explanation The "Round robin is better than FCFS in terms of response time" remark warrants a comment. Strictly speaking, it is not always true. The actual performance of "roundrobin" depends on the CPU time slice and the nature of the processes handled.

Correct answer is: D

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Question No: 20

DIRECTIONS for the question: Mark the best option:

Among the following given JavaScript snipped codes, which is more efficient:

Code A

1. `for(var number=10;number>=1;number--)`
2. `{`
3. `document.writeln(number);`
4. `}`

Code B

1. `var number=10;`
2. `while(number>=1)`

```
3. {  
4.   document.writeln(number);  
5.   number++;  
6. }
```

Code 1

Code 2

Both Code 1 and Code 2

Cannot Compare

Explanation Code 1 will be more efficient. In fact, the second code may encounter a runtime error because the value of "number" is never going to be equal to or less than one.

Correct answer is: A

Question No: 21

DIRECTIONS for the question: Mark the best option:

Consider a set of 5 processes whose arrival time, CPU time needed and the priority are given below:

Process Priority	Arrival Time (in ms)	CPU Time Needed (in ms)	Priority
P1	0	10	5

P2	0	5	2
P3	2	3	1
P4	5	20	4
P5	10	2	3

If the CPU scheduling policy is priority scheduling with preemption, the average waiting time will be

19 ms

7.6 ms

8 ms

none of the above

Explanation It is $30 + 5 + 0 + 5 + 0$ divided by 5, i.e., 8 ms.

Correct answer is: C

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Question No: 22

DIRECTIONS for the question: Mark the best option:

In the following given syntax of the switch statement, the Expression is compared with the labels using which one of the following operators?

1. switch(expression)
2. {
3. statements
4. }

====

equals

==

Equals

Explanation The strict comparison operator returns true only if the operand are of the same type and content matches. When the switch statement is executed, the value of the expression is calculated and compared to the case labels, and looks for a case whose expressions produce the same value after evaluations (where the comparison is determined by the === operator).

Correct answer is: A

Question No: 23

DIRECTIONS for the question: Mark the best option:

Consider a set of 5 processes whose arrival time, CPU time needed and the priority are given below:

Process Priority	Arrival Time (in ms)	CPU Time Needed (in ms)	Priority
P1	0	10	5
P2	0	5	2
P3	2	3	1
P4	5	20	4
P5	10	2	3

If the CPU scheduling policy is FCFS, the average waiting time will be

12.8 ms

8 ms

16 ms

None of these above

Explanation It is $0 + 10 + (15 - 2) + (18 - 5) + (38 - 10)$ divided by 5, i.e., 12.8 ms.

Correct answer is: A

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Question No: 24

DIRECTIONS for the question: Mark the best option:

In partitioned memory allocation scheme, the

best fit algorithm is always better than the first fit algorithm

first fit algorithm is always better than the best fit algorithm

superiority of the first fit and best-fit algorithms depend on the sequence of memory requests

none of the above

Explanation

Correct answer is: C

Question No: 25

DIRECTIONS for the question: Mark the best option:

Which one of the following is correct output for the following given JavaScript code:

1. var obj=

```
2. {
3.     length:20,
4.     height:35,
5. }
6. if('breadth' in obj === false)
7. {
8.     obj.breadth = 12;
9. }
10. console.log(obj.breadth);
```

Error

Undefined

12

20

Explanation In the above given JavaScript code, the "in" operator is used which checks (or performs search) for the specific property. If the certain property is found it returns true otherwise it returns false.

Correct answer is: C

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Question No: 26

DIRECTIONS for the question: Mark the best option:

Consider the following snippet of JavaScript code:

1. var text ="testing: 1, 2, 3"; // Sample text
2. var pattern =/d+/g; // Matches all instances of one or more digits

Which one of the following statement is most suitable to check if the pattern matches with the string "text".

test(text)

equals(pattern)

test(pattern)

text==pattern

Explanation The given pattern is applied on the string "text" enclosed in the parenthesis.

Correct answer is: D

Question No: 27

DIRECTIONS for the question: Mark the best option:

Which of the following given functions of the Number Object formats a number with a different number of digits to the right of the decimal?

`toExponential()`

`toFixed()`

`toPrecision()`

`toLocaleString()`

Explanation The "`toFixed()`" method formats the given number with a specific number of digits to the right of the decimal.

Correct answer is: B

Question No: 28

DIRECTIONS for the question: Mark the best option:

In JavaScript, what is a block of statement?

Conditional block

block that combines a number of statements into a single compound statement

both conditional block and a single statement

Cannot Compare

Explanation A block of statement can be understand as the set of the zero or more statements. In general, a block of statement has common definition "which combines one or a number of statements into a single statement for ease.

Correct answer is: B

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Question No: 29

DIRECTIONS for the question: Mark the best option:

Suppose we have a text "human" that we want to convert into string without using the "new" operator. Which is the correct way from the following to do so:

toString()

String(human)

String newvariable="human"

Both human.toString() and String(human)

Explanation There are three common ways to convert the text into strings: value.toString(), "" + value and String(value). We can convert a text to string without using "new" operator that are: human.toString() and the another one is String(human).

Correct answer is: D

Question No: 30

DIRECTIONS for the question: Mark the best option:

Which of the following is the correct output for the following JavaScript code:

1. Int x=8;
 2. if(x>9)
 3. {
 4. document.write(9);
 5. }
 6. else
 7. {
 8. document.write(x);
 9. }
- 0
- 8
- Undefined

Explanation The "if-else" is one of the conditional statements available in JavaScript like several other languages. Here the comparison performed in the "if" statement evaluates to false, so the instructions written in the else part gets executed. If the comparison performed in the "if" statement evaluates to true, then the instruction written in the if statement will be executed

Correct answer is: C

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