

LVL2 SET A TEST 3 PROGRAMMING

Hitbullseye

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Question No: 1

DIRECTIONS for the question: Mark the best option:

A foreign key

Increases lookup performance

Identifies a related row in another table and establishes a logical relationship between rows in two tables

Both a and b

None

Explanation

Correct answer is: B

Question No: 2

DIRECTIONS for the question: Mark the best option:

The mechanism that bring a page into memory only when it is needed is called

Segmentation

Fragmentation

Page Replacement

Demand paging

Explanation

Correct answer is: D

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Question No: 3

DIRECTIONS for the question: Mark the best option:

Suppose the partition function of quicksort is called on this array

4 7 6 5 1 8 0

Which of the array below could result from the call i.e. which of them satisfies the post condition of partition (assume partition chosen the first element of pivot).

1 0 4 5 6 8 7

1 0 5 4 6 8 7

4 0 1 5 6 8 7

4 0 1 5 6 7 8

Explanation

Correct answer is: A

Question No: 4

DIRECTIONS for the question: Mark the best option:

To create a process which system call is needed?

open()

new();

wait();

fork();

Explanation

Correct answer is: D

Question No: 5

DIRECTIONS for the question: Mark the best option:

An unrestricted use of the "goto" statement is harmful because

- it makes it more difficult to verify programs
- it increases the running time of the programs
- it increases the memory required for the programs
- it results in the compiler generating longer machine code

Explanation A goto statement causes a program to unconditionally transfer control to the statement associated with the label specified on the goto statement. A goto statement is always undesirable because it makes program more difficult to verify.

Correct answer is: A

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Question No: 6

DIRECTIONS for the question: Mark the best option:

Exceptions that are expected to possibly occur are called

checked exceptions

unchecked exceptions

runtime exceptions

Errors

Explanation Runtime exceptions are unexpected exceptions that are caused by the application logic. In Java terminology, errors are unexpected exceptions that are caused by conditions outside the code.

Correct answer is: A

Question No: 7

DIRECTIONS for the question: Mark the best option:

Calculate the average waiting time from the following data below in case of SRTF

Process	Burst Time	Arrival Time
P1	7	0
P2	4	2

2

2.5

3

3.5

Explanation

Correct answer is: C

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Question No: 8

DIRECTIONS for the question: Mark the best option:

Match the following:

(P) SMTP	(1) Application layer
(Q) BGP	(2) Transport layer
(R) TCP	(3) Data link layer
(S) PPP	(4) Network layer
	(5) Physical layer

P–2Q–1R–3S–5

P–1Q–4R–2S–3

P–1Q–4R–2S–5

P – 2 Q – 4 R – 1 S – 3

Explanation

Correct answer is: B

Question No: 9

DIRECTIONS for the question: Mark the best option:

If a process is executing in its critical section, then no other processes are permitted to execute in their critical section. This phenomena is called _____.

- Mutual Exclusion
- Critical Exclusion
- Synchronous Exclusion
- Asynchronous Exclusion

Explanation

Correct answer is: A

Question No: 10

DIRECTIONS for the question: Mark the best option:

The correct matching for the following pairs is

List-I	List-II
A. All pairs shortest path	P. Greedy
B. Quick Sort	Q. Depth-First search
C. Minimum weight spanning tree	R. Dynamic Programming
D. Connected Components	S. Divide and Conquer

A-2, B-4, C-1, D-3

A-3, B-4, C-1, D-2

A-3, B-4, C-2, D-1

A-4, B-1, C-2, D-3

Explanation All pairs shortest paths → Dynamic programming

Quick sort → Divide and conquer

Minimum weight spanning tree → Greedy technique

Connected components → Depth-First-Search

Correct answer is: B

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Question No: 11

DIRECTIONS for the question: Mark the best option:

Router functions in the _____ layers.

data link and physical

network, data link and physical

network and data link

None of the above

Explanation

Correct answer is: B

Question No: 12

DIRECTIONS for the question: Mark the best option:

Suppose you are a network engineer, you need to provide a network connectivity to 300 client computers that will reside in the same sub network , provided that each client computer must be allocated dedicated bandwidth .Which device should you use to accomplish the task?

Hub

Router

Bridge

Switch

Explanation

Correct answer is: D

Question No: 13

DIRECTIONS for the question: Mark the best option:

Which of the following are true of abstract classes/methods?

You can create an object of an abstract class

A class that has a method that is declared abstract, must itself be declared abstract

Static methods can be abstract

An abstract method has an implementation

Explanation

Correct answer is: B

Question No: 14

DIRECTIONS for the question: Mark the best option:

Which of the following types of exceptions must be declared by a piece of code that has the potential to throw such a type of exception?

Checked exceptions

Unchecked exceptions

Runtime exceptions

All of these

Explanation Unchecked exceptions include runtime exceptions.

Correct answer is: A

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Question No: 15

DIRECTIONS for the question: Mark the best option:

State which statement is true:-

- i) Switching the CPU to another process requires saving the state of the old process and loading the saved state for the new process is called context switching.
- ii) The long-term scheduler executes much less frequently.
- iii) As processes enter the system, they are put into a job queue.

i

i and ii

ii and iii

i, ii and iii

Explanation

Correct answer is: D

Question No: 16

DIRECTIONS for the question: Mark the best option:

The main memory in a Personal Computer (PC) is made of....

Dynamic Memory

Static RAM

Cache Memory

Both B and C

Explanation

Correct answer is: D

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Question No: 17

DIRECTIONS for the question: Mark the best option:

Virtual memory allows :

- Execution of a process that may be completely in memory
- A program to be larger than the physical memory
- A program to be larger than the secondary storage
- Execution of a process without being in physical memory

Explanation

Correct answer is: B

Question No: 18

DIRECTIONS for the question: Mark the best option:

If the given binary tree is traversed in post order

Then the order of nodes visited are:

JGEDBKHFCA

DBJGEAKHFIC

DJGEBKHIFCA

ABDEGJCFHKI

Explanation

Correct answer is: C

Question No: 19

DIRECTIONS for the question: Mark the best option:

For 3 page frames, the following is the reference string :

7 0 1 2 0 3 0 4 2 3 0 3 2 1 2 0 1 7 0 1

How many page faults does the LRU page replacement algorithm produce?

10

11

12

15

Explanation

Correct answer is: C

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Question No: 20

DIRECTIONS for the question: Mark the best option:

Match the pairs in the following

List-I	List-II
A. Pointer data type	P. Type conversion
B. Activation record	Q. Dynamic data structure
C. Repeat-until	R. Recursion
D. Coercion	S. Nondeterministic loop

a-p,b-r,c-s,d-q

a-q,b-r,c-s,d-p

a-q,b-p,c-s,d-r

a-p,b-q,c-r,d-s

Explanation In programming language, coercion is a way of implicitly or explicitly, changing an entity of one data type into another. Repeat-until is a nondeterministic loop. The portion of the stack used for an invocation of a function is called the function's stack frame or activation record. So activation record is used for recursion. Dynamic data structure is used for pointer data type, a-q, b-r, c-s, d-p

Correct answer is: B

Question No: 21

DIRECTIONS for the question: Mark the best option:

Let S and Q be two semaphores initialized to 1, where P0 and P1 processes the following statements:

P0 P1

wait(S); wait(Q); wait(Q); wait(S);

..... signal(S); signal(Q); signal(Q); signal(S);

The above statement refers to a _____.

interrupt

deadlock

semaphore

signal

Explanation

Correct answer is: B

Question No: 22

DIRECTIONS for the question: Mark the best option:

Which protocol is used for end-to-end delivery

SCTP

TCP

UDP

SMTP

Explanation

Correct answer is: D

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Question No: 23

DIRECTIONS for the question: Mark the best option:

Observe the statement and choose the correct option: -

The solution possible for critical section problem is only mutual exclusion.

- True
- False
- Contradictory
- None of these

Explanation

Correct answer is: B

Question No: 24

DIRECTIONS for the question: Mark the best option:

Two 2's compliment numbers having sign bits 'p' and 'q' are added and the sign bit of result is 'R' which Boolean function indicates the occurrence of overflow?

PQR

PQ +QR +RP

Explanation

Correct answer is: C

Question No: 25

DIRECTIONS for the question: Mark the best option:

What will be the output of following java code?

```
class UGI
{
    UGI()throws IOException
    {
    }
}
```

```
class UU extends UGI
{
    UU()
    {
    }
    public static void main(String[]args)
    {
    }
}
```

Compile time error

Runtime error

Compiles and will execute normally

unreported exception Exception; must be caught or declared to be thrown

Explanation

Correct answer is: D

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Question No: 26

DIRECTIONS for the question: Mark the best option:

What does the following code do?

```
public void func(Tree root)
{
    func(root.left());
    func(root.right());
```

```
        System.out.println(root.data());  
    }
```

Preorder traversal

Postorder traversal

Inorder traversal

None of the above

Explanation

Correct answer is: B

Question No: 27

DIRECTIONS for the question: Mark the best option:

Consider an operation of addition .for two numbers, the operating will generate the sum. if the operand are string, and the same operation would produce a third string by concatenation. This feature is called.....

Inheritance

Encapsulation

Polymorphism

Binding

Explanation

Correct answer is: C

Question No: 28

DIRECTIONS for the question: Mark the best option:

Match the pairs in the following:

List-I	List-II
A. Smalltalk	P. Logic programming
B. LISP	Q. Data flow programming
C. Prolog	R. Functional programming

A-S,B-R,C-P,D-Q

A-R, B-S,C-P,D-Q

A-S,B-P,C-R,D-Q

A-S,B-R,C-Q,D-P

Explanation

Correct answer is: A

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Question No: 29

DIRECTIONS for the question: Mark the best option:

Let P be a Quick Sort Program to sort numbers in ascending order using the first element as pivot. Let t₁ and t₂ be the number of comparisons made by P for the inputs {4,5,6,7,8} and {8,5,6,7,4} respectively. Which one of the following holds?

t₁ = 5

t₁ < t₂

t₁ > t₂

t₁ = t₂

Explanation When first element or last element is chosen as pivot, Quick Sort's worst case occurs for the sorted arrays.

In every step of quick sort, numbers are divided as per the following recurrence.

$$T(n) = T(n-1) + O(n)$$

Correct answer is: C

Question No: 30

DIRECTIONS for the question: Mark the best option:

When there is enough memory to fit a process, but the memory space is non-contiguous, this situation is called _____.

Internal Fragmentation

External Fragmentation

Virtual Fragmentation

Segmentation

Explanation

Correct answer is: A

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