

DSN4098 - Comprehensive exam B.Tech 2019

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* Required

A key concept of quality control is that all work products

1 point

- ☐ are delivered on time and under budget
- ☐ have complete documentation
- ☐ have measurable specification for process outputs
- ☒ are thoroughly tested before delivery to the customer

[Clear selection](#)

The method of accessing the I/O devices by repeatedly checking the status flags is 1 point

- ☒ Program-controlled I/O
- ☐ Memory-mapped I/O
- ☐ I/O mapped
- ☐ None of the above

[Clear selection](#)



Which of the following converts Java byte code into Dalvik byte code?

1 point

- ☐ Dalvik converter
- ☒ Dex compiler
- ☐ Mobile interpretive compiler (MIC)
- ☐ None of the above

Clear selection

The interrupt-request line is a part of the

1 point

- ☐ Data line
- ☒ Control line
- ☐ Address line
- ☐ None of the above

Clear selection

A firewall is installed at the point where the secure internal network and untrusted external network meet which is also known as -----

1 point

- ☒ Check point
- ☐ meeting point
- ☐ firewall point
- ☐ secure point

Clear selection



Relational algebra dose not have

1 point

- ☐ Selection operator
- ☐ Projection operator
- ☒ Aggregation operator
- ☐ Division operator

Clear selection

Virtual memory is

1 point

- ☐ simple to implement
- ☐ used in all major commercial operating systems
- ☐ less efficient in utilization of memory
- ☒ useful when fast I/O devices are not available

Clear selection

If the graph is represented as an adjacency matrix then the time complexity of Kruskal's algorithm is _____ 1 point

- ☒ $O(E \log V)$
- ☐ $O(V \log E)$
- ☐ $O(V^2)$
- ☐ $O(\log E)$

Clear selection



What will be the result of the following program ?
Void main(){Int a=8,b=2,c,*p;C=(a=a+b,b=a/b,a=a*b,b=a-b);P=&c;Clrscr();Printf("\n%d",++*p);}

1 point

- ☒ 50
- ☐ 46
- ☐ 36
- ☐ 40

Clear selection

The ----- layer is responsible for resolving access to the shared media or resources.

1 point

- ☐ Physical
- ☐ Network
- ☐ Transport
- ☒ Mac sub layer

Clear selection

The phase Syntax Analysis is modeled on the basis of

1 point

- ☐ High level language
- ☐ Low level language
- ☒ Context free grammar
- ☐ Regular grammar

Clear selection



The parsing technique that avoids backtracking is

1 point

- ☐ Top-down parsing
- ☐ Recursive-descent parsing
- ☒ Predictive parsing
- ☐ Both Recursive-descent parsing and Predictive parsing

Clear selection

What is Thrashing?

1 point

- ☒ A high paging activity is called thrashing.
- ☐ A high executing activity is called thrashing
- ☐ A extremely long process is called thrashing
- ☐ A extremely long virtual memory is called thrashing

Clear selection

Compiler is a program that

1 point

- ☐ Automates the translation of assembly language into machine language
- ☐ Appears to execute a source program as if it were machine language
- ☒ Accepts a program written in a high level language and produces an object program
- ☐ Places programs into memory and prepares them for execution

Clear selection



Which of the following is not an attribute of software engineering

1 point

- ☐ Efficiency
- ☐ Scalability
- ☒ Dependability
- ☐ Usability

Clear selection

When a user views a page containing a JavaScript program, which machine actually executes the script? 1 point

- ☐ The Web server
- ☒ The User's machine running a Web browser
- ☐ A central machine deep within Netscape's corporate offices
- ☐ None of the above

Clear selection

Which statement is correct....??

1 point

- ☐ List is immutable & Tuple is mutable
- ☒ List is mutable & Tuple is immutable
- ☐ Both are Mutable
- ☐ Both are Immutable

Clear selection



Software consists of

1 point

- ☐ Set of instructions + operating procedures
- ☒ Programs + documentation + operating procedures
- ☐ Programs + hardware manuals
- ☐ Set of programs

Clear selection

The time taken by NP-class sorting algorithm is

1 point

- ☐ $O(1)$
- ☐ $O(\log n)$
- ☐ $O(n^2)$
- ☒ $O(n)$

Clear selection

What type of errors are not detected by assemblers

1 point

- ☐ Syntax error
- ☐ Runtime error
- ☒ Logical error
- ☐ All of the these

Clear selection



----- address is not assigned by linker

1 point

- ☒ Absolute
- ☐ Relative
- ☐ Both of the above
- ☐ None of these

Clear selection

Student Name *

Abhijeet Chatterjee

On which of the following, developers can test the application, during developing the android applications?

1 point

- ☐ Third-party emulators
- ☐ Emulator included in Android SDK
- ☐ Physical android phone
- ☒ All of the above

Clear selection



If the number of record to be sorted large and the key is long, then ----- sorting can be efficient.

1 point

- ☒ Merge
- ☐ Heap
- ☐ Quick
- ☐ Bubble

Clear selection

Python allows string slicing. What is the output of below code: `s='cppbuzz'`
`chicago'print(s[3:5])`

1 point

- ☐ buzzc
- ☐ pbuzz
- ☒ bu
- ☐ None of these

Clear selection

Which of the following is an internal sorting?

1 point

- ☐ Tape sort
- ☐ 2-way merge sort
- ☐ Merge sort
- ☒ Tree sort

Clear selection



Software feasibility is based on which of the following

1 point

- ☐ business and marketing concerns
- ☐ scope, constraints, market
- ☒ technology, finance, time, resources
- ☐ technical prowess of the developers

Clear selection

TCP/IP model was developed ____ the OSI model.

1 point

- ☒ prior to
- ☐ after
- ☐ simultaneous to
- ☐ none of the mentioned

Clear selection

What is the output of the following C++ code `#include<iostream> int main(int argc, char *argv[]) { cout<<"Hello World"; return 0; }` 1 point

- ☐ Hello World
- ☒ Compile-time error
- ☐ Run-time error
- ☐ Segmentation fault

Clear selection



To resolve problem of I/O devices there is special hardware component between cpu and ----- and to supervise and synchronize all input output transfers

1 point

- ☐ Software
- ☐ Hardware
- ☒ Peripheral
- ☐ None of these

Clear selection

Which algorithm is used as general variant of theorems, in the domain of integral numbers.

1 point

- ☐ Multiplication algorithm
- ☒ Division algorithm
- ☐ Addition algorithm
- ☐ Simple algorithm

Clear selection

A linear list in which each node has point to the predecessor and successors nodes is called -----

1 point

- ☐ Singly linked list
- ☐ Circular linked list
- ☒ doubly linked list
- ☐ linear linked list

Clear selection



What will be output if you will compile and execute the following c code?

1 point

```
#include<stdio.h> int main(){ int i=4,x; x=++i + ++i + ++i; printf("%d",x); return 0;}
```

- ☒ 21
- ☐ 18
- ☐ 12
- ☐ compile time error

Clear selection

The physical layer is responsible for

1 point

- ☐ line coding
- ☐ channel coding
- ☐ modulation
- ☒ all of the mentioned

Clear selection

Linked list are best suited -----

1 point

- ☐ for relatively permanent collections of data
- ☒ for the size of the structure and the data in the structure are constantly changing
- ☐ data structure
- ☐ none of the above

Clear selection



Relations produced from an E-R model will always be in:

1 point

- ☒ First normal form
- ☐ Second normal form
- ☐ Third normal form
- ☐ Fourth normal form

Clear selection

In computer network nodes are

1 point

- ☐ the computer that originates the data
- ☐ the computer that routes the data
- ☐ the computer that terminates the data
- ☒ all of the mentioned

Clear selection

Which one of the following algorithm is not used for congestion control?

1 point

- ☐ traffic aware routing
- ☐ admission control
- ☐ load shedding
- ☒ none of the mentioned

Clear selection



Which memory is used to copy instructions or data currently used by cpu

1 point

- ☐ Main memory
- ☐ Secondary Memory
- ☒ Cache memory
- ☐ None of these

Clear selection

Name the node which has been generated but none of its children nodes have been generated in state space tree of backtracking method.

1 point

- ☐ Dead node
- ☒ Live node
- ☐ E-Node
- ☐ State Node

Clear selection

An endpoint of an inter-process communication flow across a computer network is called

1 point

- ☒ socket
- ☐ pipe
- ☐ port
- ☐ none of the mentioned

Clear selection



In which condition resource is not removed from a process holding

1 point

- ☐ Synchronization problem
- ☒ No preemption
- ☐ Hold and wait
- ☐ None of these

Clear selection

In the case of sub problems share sub problems ,which method is suitable

1 point

- ☐ greedy method
- ☐ branch and bound
- ☒ dynamic programming
- ☐ divide and conquer

Clear selection

The process where in the processor constantly checks the status flags is called as

1 point

- ☒ Polling
- ☐ Inspection
- ☐ Reviewing
- ☐ Echoing

Clear selection



The simple method of controlling sequence of instruction execution is to have each instruction explicitly specify

1 point

- ☒ The address of next instruction to be run
- ☐ Address of previous instruction
- ☐ Both of the above
- ☐ None of these

Clear selection

Observe following function declaration and choose the best answer: `int divide (int a, int b = 2)`

1 point

- ☒ Variable b will have value 2 if not specified when calling function
- ☐ Variable b is of integer type and will always have value 2
- ☐ Variable b is international scope and will have value 2
- ☐ Variable a and b are of int type and the initial value of both variables is 2

Clear selection

The term dequeue is the contraction of the name ----

1 point

- ☒ Double ended queue
- ☐ Double side queue
- ☐ Double hashed queue
- ☐ Double address queue

Clear selection



A scheduler which selects processes from secondary storage device is called

1 point

- ☐ Short term scheduler
- ☒ Long term scheduler
- ☐ Medium term scheduler
- ☐ Process scheduler

Clear selection

Assembly language program is called

1 point

- ☐ Object program
- ☒ Source program
- ☐ Oriented program
- ☐ All of these

Clear selection

Which of the following is the logical topology?

1 point

- ☐ Bus
- ☐ Tree
- ☐ Star
- ☒ All of the above

Clear selection



Which one of the following databases has PHP supported almost since the beginning? 1 point

- ☐ Oracle Database
- ☒ MySQL
- ☐ SQL
- ☐ SQL+

Clear selection

Registration Number *

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The disadvantage in using a circular linked list is -----

1 point

- ☒ it is possible get into infinite loop
- ☐ last node points to first node
- ☐ time consuming
- ☐ requires more memory space

Clear selection



In ----- ,search start at the beginning of the list and check every element in the list. 1 point

- ☒ Linear search
- ☐ Binary search
- ☐ Hash search
- ☐ Binary Tree search

Clear selection

In ER model the details of the entities are hidden from the user. This process is called: 1 point

- ☐ Generalization
- ☐ Specialization
- ☒ Abstraction
- ☐ none of these above

Clear selection

While inheriting a class, if no access mode is specified, then which among the following is true? (in C++) 1 point

- ☐ its gets inherited publicly by default
- ☒ its gets inherited privately by default
- ☐ its gets inherited protected by default
- ☐ it is not possible

Clear selection



Which of the following searching methods requires that all keys must reside in internal memory? 1 point

- ☒ Binary search
- ☐ Sequential search
- ☐ Hashing
- ☐ Depth first search

Clear selection

Which directory implementation is used in most Operating System? 1 point

- ☐ Single level directory structure
- ☐ Two level directory structure
- ☒ Tree directory structure
- ☐ Acyclic directory structure

Clear selection

How many maximum numbers of objects can be created from a single Class in Java? 1 point

- ☐ 32
- ☐ 64
- ☐ 256
- ☒ None

Clear selection



The method of synchronizing the processor with the I/O device in which the device sends a signal when it is ready is 1 point

- ☐ Exceptions
- ☐ Signal handling
- ☒ Interrupts
- ☐ DMA

Clear selection

Transactions per rollback segment is derived from ----- 1 point

- ☐ Db_Block_Buffers
- ☒ Processes
- ☐ shared_Pool_size
- ☐ buffers

Clear selection

_____ constructs the desired target program from the intermediate representation of the source program. 1 point

- ☐ Analysis part
- ☐ Lexical part
- ☒ Synthesis part
- ☐ None of these

Clear selection



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