

DSN4098 - Comprehensive exam B.Tech 2019

abhijeet.chatterjee2019@vitbhupal.ac.in [Switch account](#)



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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 does 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 1 point actually executes the script?

- 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' 1 point
chicago'print(s[3:5])

- 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; }`

- 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](#)

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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 1 point is called:

- Generalization
- Specialization
- Abstraction
- none of these above

[Clear selection](#)

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

- 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 1 point in Java?

- 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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