Question Paper Name: Computer Science and Information Technology 10th May 2017 Shift 2
Subject Name: Computer Science and Information Technology

Computer Science and Information Technology

Display Number Panel: Group All Ouestions:

Yes No

Question Number: 1 Question Id: 254528601 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

The mean deviation of 2, 4, 6, 8, 10 about its mean is

Options:

- , 2.4
- , 3.4
- , 4.2
- 4. 4.3

Question Number: 2 Question Id: 254528602 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

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If X is a Binomial variate of n trials, with mean 10 and variance 5, then n is

Options:

- 1. 5
- 2 10
- 3 15
- 4 20

Question Number: 3 Question Id: 254528603 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

The number of integers between 1 and 499 which are divisible by 3 but not by 5 is

- 133
- 2. 134

Let S_{12} be the set of positive divisors of 12 and D be the division partial order on S_{12} . In the lattice (S_{12}, D) , the complement of 3 is

Options:

- 1
- 3
- 3 4
- 4 6

Question Number: 5 Question Id: 254528605 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

The generating function of the sequence 0, 2, 6, 12, 20,, is

Cerr

Options:

$$\frac{2x}{(1-x)^3}$$

$$\frac{x}{(1-x)^3}$$

$$\frac{x^2}{(1-x)^3}$$

$$\frac{2x^2}{(1-x)^3}$$

Question Number: 6 Question Id: 254528606 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

If $a_{n+2} - 4a_{n+1} + 4a_n = 0$ for $n = 0, 1, 2 \dots$ then $a_n =$

Options:

$$n^2 2^n$$

$$(n+1)2^n$$

$$(n+n^2)2^n$$

$$(n^2+1)2^n$$

Question Number: 7 Question Id: 254528607 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

If λ_1 , λ_2 , λ_n are eigen values of $n \times n$ matrix A and $k \neq 0$, then the eigen values of matrix kA are

$$\frac{1}{k}\lambda_{1}, \frac{1}{k}\lambda_{2}, \dots, \frac{1}{k}\lambda_{n}$$

$$k\lambda_1, k\lambda_2, \ldots, k\lambda_n$$

3.

$$\lambda_1^{\frac{1}{k}}, \lambda_2^{\frac{1}{k}}, \dots, \lambda_n^{\frac{1}{k}}$$



Question Number: 8 Question Id: 254528608 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

From the table given below

х	0	0.2	0.4	0.6	0.8	1
f(x)	0	0.008	0.064	0.216	0.512	1

the value of $\int_0^1 f(x) dx$ by Trapezoidal rule, is

Options:

- 1. 0.25
- 0.27
- , 0.26
- 4 0.24

Question Number: 9 Question Id: 254528609 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

The value of y(0.01), by Euler's method for the differential equation y' = -y with y(0) = 1 and h = 0.01 is

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Options:

- 0.99
- 2. 0.98
- 3. 1.01
- 4. 1.02

Question Number: 10 Question Id: 254528610 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

The maximum value of $f(x, y, z) = kxyz^2$ (k is constant) subject to $x^2 + y^2 + z^2 = a^2$ is

	ka²
함: 보신	8

- $8ka^2$
- 4 8ka

Question Number: 11 Question Id: 254528611 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Which of the following set of rules of inference correspond to "Modus ponens"?

Options:

- $P \rightarrow q, q \rightarrow r$ therefore $p \rightarrow r$
- pVq, ¬pVr therefore q V r
- $\neg q, p \rightarrow q$ therefore $\neg p$
- $p, p \rightarrow q$ therefore q

Question Number: 12 Question Id: 254528612 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

 $R \rightarrow (P \rightarrow R)$ is equivalent to

Options:

- 1 P
- 2. ---
- 3. Tautology
- Contradiction PIQPBANK.COM

Question Number: 13 Question Id: 254528613 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

What is the correct translation of the following statement into mathematical logic? "Some real numbers are rational"

- $\exists x (real(x) \ V \ rational \ (x))$
- $\forall x (real(x) \rightarrow rational(x))$
- $\exists x (real(x) \land rational(x))$
- ₄ $\exists x (real(x) \rightarrow rational(x))$



- A partial order
- 2 A total order
- An equivalence relation
- A symmetric relation

Question Number: 15 Question Id: 254528615 Display Question Number: Yes Single Line Question Option: No Option **Orientation: Vertical**

The function ((p V (r V q)) $\wedge \neg (\neg q \wedge \neg r)$ is equal to the function

Options:

- 2. (¬q ∧ ¬r)
- 3. q V r

Question Number: 16 Question Id: 254528616 Display Question Number: Yes Single Line Question Option: No Option **Orientation**: Vertical

A connected planar graph with 15 vertices divides the plane into 12 regions. How many edges does the graph have?

Options:

- 1.15

UPIQPBANK.COM Insufficient data

Question Number: 17 Question Id: 254528617 Display Question Number: Yes Single Line Question Option: No Option **Orientation: Vertical**

What is the chromatic number of an n-vertex simple connected graph which does not contain any odd length cycle? Assume $n \ge 2$.

- 2 3
- $_{3}$ n-1

Orientation: Vertical

An undirected simple graph has an even number of vertices having

Options:

- An even degree
- An odd degree
- A degree of atleast n/2
- A degree of atleast n/3

Question Number: 19 Question Id: 254528619 Display Question Number: Yes Single Line Question Option: No Option

Maximum number of edges in an n-node undirected graph without self-loop is

Options:

- 1. n²
- n(n-1)/2
- n-1
- n(n+1)/2

Question Number : 20 Question Id : 254528620 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

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Suppose G and H are isomorphic simple graphs. Then

Options:

- G and H are isomorphic
 - G and H are not isomorphic
- G and H are isomorphic
- G and H are isomorphic

Question Number: 21 Question Id: 254528621 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

The minimal sum of products expression for the function $F = \sum ABC(0, 1, 5, 7)$ is

$$_1$$
 A + C



Question Number: 22 Question Id: 254528622 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Odd parity of word can be conveniently tested by

Options:

- OR gate
- AND gate
- NOR gate
 - XOR gate

4.

Question Number: 23 Question Id: 254528623 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

The range of numbers which can be represented by 9 bits when two's complement integer representation is used is

Options:

- -256 to 255
- -255 to 256
- ₂ -512 to 511
- 0 to 1024

Question Number: 24 Question Id: 254528624 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Given for two Boolean variables x and y, xy' + x'y = z, what is xz' + x'z?

Options:

- , X
- , У
- 2 Z
- Xyz

Question Number: 25 Question Id: 254528625 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

The present output Q_n of an edge triggered J-K flip-flop is logic 0. If j = 1 then Q_{n+1}

- cannot be determined
- will race around



Question Number: 26 Question Id: 254528626 Display Question Number: Yes Single Line Question Option: No Option **Orientation: Vertical**

Which of the following instructions is an example of direct addressing mode?

Options:

- MOV A. B
- LXI, H,2050
- MVI A,05
- 4 HLT

Question Number: 27 Question Id: 254528627 Display Question Number: Yes Single Line Question Option: No Option

erna

If the main memory is of 8K bytes and the cache memory is of 2K words and if associative mapping is used, the word size in cache memory will be

Options:

- 16 bits
- 20 bits
- 21 bits
- 4 11 bits

Question Number: 28 Question Id: 254528628 Display Question Number: Yes Single Line Question Option: No Option **Orientation**: Vertical

The micro operation that divides the number by 2 by leaving the sign bit unchanged is

Options:

- Arithmetic shift left
- 2 Arithmetic shift right
- Circular shift left
- 4. Circular shift right

Question Number: 29 Question Id: 254528629 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

The priority interrupt method that consists of serial connections of all devices requesting an interrupt where the devices are arranged from higher to lower priority is

- 2 raratter priority
- Priority encoder
- 4 Priority decoder



Question Number: 30 Question Id: 254528630 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

In case of Zero-address instruction format the operands are stored in

Options:

- Registers
- Accumulators
- 2 Push down stack
- Cache



Question Number: 31 Question Id: 254528631 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

A memory unit where the elements are accessed by content is called

Options:

- Associative memory
- RAM
- ROM
- Auxiliary memory

Question Number: 32 Question Id: 254528632 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

A CPU has 13- bits address bus and an 8-bit data bus. It is connected to a memory of 16K bits organized in 2K bytes. How much more memory (in bytes) can be added?

Options:

- 8K bytes
- 6K bytes
- 4K bytes
- 16K bytes

Question Number: 33 Question Id: 254528633 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

```
secondary storage, main memory, cache, registers
  registers, cache, secondary storage, main memory
  registers, cache, main memory, secondary storage
  cache, registers, main memory, secondary storage
Question Number: 34 Question Id: 254528634 Display Question Number: Yes Single Line Question Option: No Option
Basic Stored Program Computer architecture consumes
Options:
  more time to memory accesses and less time to execution
  less time to memory accesses and more time to execution
  more time to memory accesses and more time to execution
  less time to memory accesses and less time to execution
Question Number: 35 Question Id: 254528635 Display Question Number: Yes Single Line Question Option: No Option
Orientation: Vertical
In which class of computer(s), the primary goal is to optimize the response time and not
the throughput?
Options:
  Desktop Computers
                           QPBANK.COM
  Embedded Computers
  Server Computers
  Datacenters
Question Number: 36 Question Id: 254528636 Display Question Number: Yes Single Line Question Option: No Option
Orientation: Vertical
What output is obtained after the compilation and execution of the following C code?
    #include<stdio.h>
    int main()
     \{ \text{ int } i=4,x;x=++i+++i+++i; \}
     printf("%d",x); return 0;
```

Question Number: 37 Question Id: 254528637 Display Question Number: Yes Single Line Question Option: No Option **Orientation: Vertical**

A binary tree T has n leaf nodes. The number of nodes of degree 2 in T are

Options:

- Logn
- $_{2}$ n 1
- n+1

Question Number: 38 Question Id: 254528638 Display Question Number: Yes Single Line Question Option: No Option **Orientation: Vertical**

The first step of Dijkstra's algorithm for finding single source shortest paths in a graph is to

Options:

- find minimum cost edge in the graph
- find the shortest path in the graph
- find the connectivity to all notes in the graph
- find the cycles in the graph

Question Number: 39 Question Id: 254528639 Display Question Number: Yes Single Line Question Option: No Option **Orientation: Vertical**

What is the main drawback of parameter passing by 'call by value'?

Options:

- Variable passing
- Expressions passing
- Copying data consumes additional storage space
- A function can return only one value.

Ouestion Number: 40 Ouestion Id: 254528640 Display Ouestion Number: Yes Single Line Ouestion Option: No Option

Orientation: Vertical



Question Number: 41 Question Id: 254528641 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Which of the following sorting algorithms work on the principle - "less dense particles go up and the more dense particles settle down"?

Options:

- 1 Selection sort
 - Bubble sort
- Insertion sort
- Two-way merge sort

Question Number: 42 Question Id: 254528642 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

In general, linked lists allow

Options:

Insertions and removals anywhere in the list

- Insertions and removals only at one end
- 3 Insertions at rear end and removals from front end
- Insertions at front end and removal at rear end

Question Number: 43 Question Id: 254528643 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Queue plays major role in

- Simulation of recursion
- Simulation of arbitrary linked list
- Simulation of limited resource allocation
- Expression evaluation

shortest paths in a graph? **Options:** Greedy Dynamic Programming Divide and Conquer Back tracking Question Number: 45 Question Id: 254528645 Display Question Number: Yes Single Line Question Option: No Option Orientation : Vertical Kruskal's algorithm for finding a minimum spanning tree of a weighted graph G with n vertices and m edges has the time-complexity of **Options:** $O(n^2)$ O(m+n)O(mn) $O(m^2)$ Question Number: 46 Question Id: 254528646 Display Question Number: Yes Single Line Question Option: No Option **Orientation**: Vertical If the inorder and postorder traversal of a binary tree are both ABC. Then its preorder traversal is UPIQPBANK.COM **Options:** CBA 2. ABC 4. ACB

Question Number: 47 Question Id: 254528647 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

In a binary search tree, if there are 'n' internal nodes then how many external nodes will be present?

Options:

1.

n+1

Question Number: 48 Question Id: 254528648 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

What is the average number of comparisons in binary search algorithm?

Options:

- $\log_2(n)$
- $\log_2(n^2)$
- $n \log_2(n)$

$$\log_2 \frac{(n(n+1))}{2}$$

Question Number: 49 Question Id: 254528649 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Assuming $P \neq NP$, which of the following is true?

Options:

$$NP$$
-Complete = NP

1.

, NP-Complete
$$\cap$$
 P = Ø

NP hard = NP

$$P = NP$$
-Complete

Question Number: 50 Question Id: 254528650 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Which of the following problems is NP-Hard but not NP-complete?

Options:

- Graph coloring
- Satisfiability problem
- Clique decision problem

N-Queens problem

Question Number: 51 Question Id: 254528651 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

(1+010)*

$$(1+01)*(0+\lambda)$$



Question Number: 52 Question Id: 254528652 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

The Language $L = \{0^i \ 2 \ 1^i \mid i \ge 0\}$ over the alphabet $\{0, 1, 2\}$ is

Options:

- not recursive
 - recursive and is a deterministic CFL
- a regular language
- not a deterministic CFL but a CFL

Question Number: 53 Question Id: 254528653 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

The Language accepted by PushDown Automata is

Options:

- Type 0
- Type 1
- Type 2 UPIQPBANK.COM

Type 3

Question Number: 54 Question Id: 254528654 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

The Grammar $S \rightarrow aSa \mid bSc \mid c$ is

- LL(1) but not LR(1)
- LR(1) but not LL(1)
- both LL(1) and LR(1)
- neither LL(1) nor LR(1)

Options: Regular Context free Context sensitive Recursive Question Number: 56 Question Id: 254528656 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical If the strings of a languages L can be effectively enumerated in lexicographic (i.e., alphabetic) order which of the following statement is true? **Options:** L is necessarily finite L is regular but not necessarily finite L is context free but not necessarily regular L is recursive but not necessarily context free Question Number: 57 Question Id: 254528657 Display Question Number: Yes Single Line Question Option: No Option **Orientation: Vertical** What is the minimum number of states in the NFA accepting the language {ab, abc}? **Options:** UPIQPBANK.COM Question Number: 58 Question Id: 254528658 Display Question Number: Yes Single Line Question Option: No Option **Orientation: Vertical** The language $L = (0^n \ 1^n \ 2^n \text{ where } n > 0)$ is a **Options:** context free language context-sensitive language regular language

Question Number: 59 Question Id: 254528659 Display Question Number: Yes Single Line Question Option: No Option The language $(a^n b^n / n \le 2017)$ is **Options:** regular not regular context free context sensitive Question Number: 60 Question Id: 254528660 Display Question Number: Yes Single Line Question Option: No Option A problem is not computable if and only if **Options:** It is not decidable It is not Turing recognizable It is not countable The language is infinite Question Number: 61 Question Id: 254528661 Display Question Number: Yes Single Line Question Option: No Option **Orientation: Vertical** The flow of control of program's activation tree can be represented by **Options:** Depth first traversal QPBANK.COM Breadth first traversal 3. B-Tree ₄ B⁺ Tree Question Number: 62 Question Id: 254528662 Display Question Number: Yes Single Line Question Option: No Option **Orientation: Vertical** A general macro processor is an inbuilt function of **Options:** Loader Linker

Question Number: 63 Question Id: 254528663 Display Question Number: Yes Single Line Question Option: No Option **Orientation: Vertical** The output of the parsing is **Options:** Lexemes Syntax tree Three address code Assembly code Question Number: 64 Question Id: 254528664 Display Question Number: Yes Single Line Question Option: No Option **Orientation: Vertical** Which of the following is true while converting CFG to LL(I) grammar? **Options:** Removes left recursion alone Removes factoring alone Removes both left recursions and factoring Removes right recursion alone Question Number: 65 Question Id: 254528665 Display Question Number: Yes Single Line Question Option: No Option **Orientation**: Vertical Some code optimizations are carried out during the intermediate code because **Options:** They enhance the portability of the compiler to other target processors Program analysis is more accurate on intermediate code than on machine code The information from dataflow analysis cannot otherwise be used for optimization 3. The information from the semantic analysis cannot otherwise be used for optimization Question Number: 66 Question Id: 254528666 Display Question Number: Yes Single Line Question Option: No Option

Options:

Language is strongly typed

Compiler is preferred over interpreter if

Procedural abstraction is involved Question Number: 67 Question Id: 254528667 Display Question Number: Yes Single Line Question Option: No Option **Orientation: Vertical** Which of the following is a loop optimization technique? **Options:** Folding Induction variable elimination Compile time computation Redundant sub expression elimination Question Number: 68 Question Id: 254528668 Display Question Number: Yes Single Line Question Option: No Option **Orientation: Vertical** In which of the following phases of compiler, type checking is done? **Options:** Syntax analysis erna Semantic analysis Lexical analysis Code generation Question Number: 69 Question Id: 254528669 Display Question Number: Yes Single Line Question Option: No Option **Orientation**: Vertical Which data structure in a compiler is used for managing information about variables and their attributes? **Options:** Syntax Tree Symbol Table

ă

Parsing Table

Grammar

Question Number: 70 Question Id: 254528670 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Options .
local optimization
loop optimization
2
constant folding 3.
data flow analysis
4.:
Question Number: 71 Question Id: 254528671 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical
A program located in the smallest available hole in the memory is
Options:
best fit
first fit
worst fit
4. compaction
Question Number: 72 Question Id: 254528672 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical
Page fault occurs when
Options:
Page is corrupted by an application software the page is in not the main memory
the page is in not the main memory
the power goes off 3.
an intruder attacks the system
Question Number: 73 Question Id: 254528673 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical
Which of the following scheduling algorithms gives minimum average waiting time?
Options:
First Come First Serve
2 Shortest Job First

Question Number: 74 Question Id: 254528674 Display Question Number: Yes Single Line Question Option: No Option Orientation : Vertical Which scheduling policy is most suitable for time shared operating systems? **Options:** Shortest Job First

First Come First Serve

Round Robin

Preemptive Scheduling

Question Number: 75 Question Id: 254528675 Display Question Number: Yes Single Line Question Option: No Option **Orientation: Vertical**

A Critical Section in a program segment is one

Options:

- which should run in a certain specified amount of time
- which must be enclosed by a pair of semaphores operation
- where shared resources are accessed
- which must be enclosed by a pair of semaphores operation

Question Number: 76 Question Id: 254528676 Display Question Number: Yes Single Line Question Option: No Option **Orientation: Vertical**

What is demand paging?

Options:

NK.COM A policy for determining which page to replace

Starting a process with all of its pages resident in physical memory

Loading a page into memory only on a page fault

Overlaying a page in memory

Question Number: 77 Question Id: 254528677 Display Question Number: Yes Single Line Question Option: No Option **Orientation: Vertical**

Which of the following CPU scheduling algorithms can cause "starvation"?

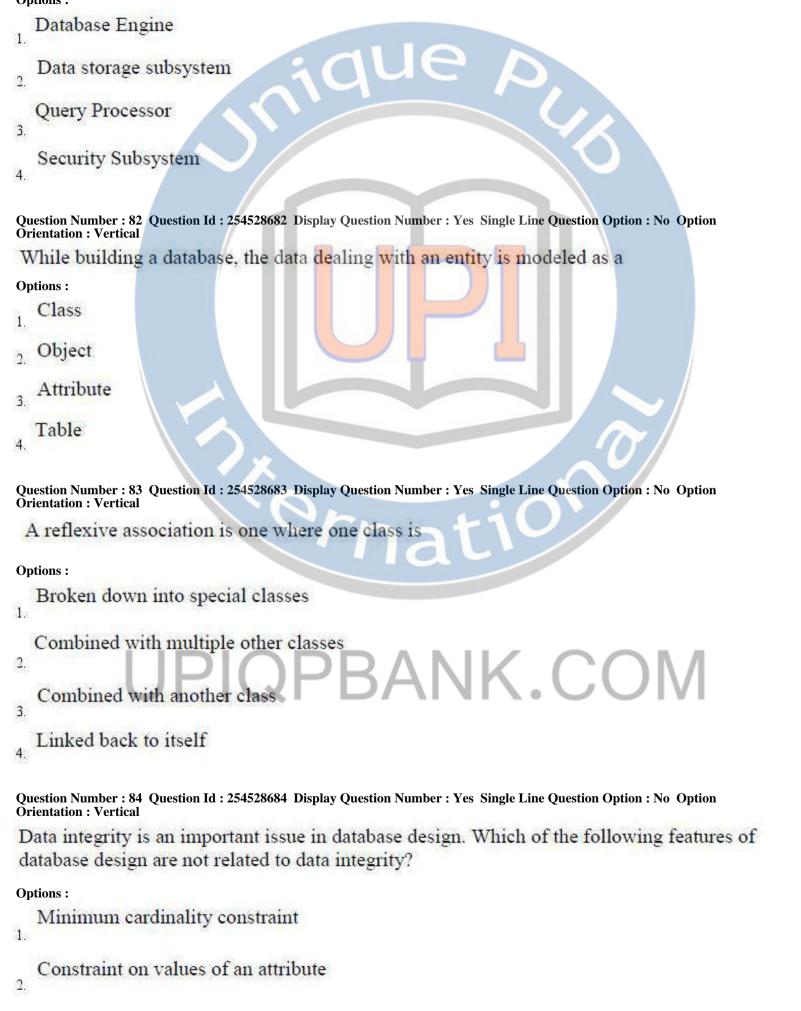
Options:

Round Robin

Non pre-emptive scheduling Question Number: 78 Question Id: 254528678 Display Question Number: Yes Single Line Question Option: No Option **Orientation**: Vertical Which of the following memory allocation strategies suffers from internal fragmentation? **Options:** Best fit Worst fit Compaction **Buddy System** Question Number: 79 Question Id: 254528679 Display Question Number: Yes Single Line Question Option: No Option **Orientation: Vertical** The scheduler admits a process using **Options:** two phase locking protocol admission control algorithm busy wait polling only nice value Question Number: 80 Question Id: 254528680 Display Question Number: Yes Single Line Question Option: No Option **Orientation**: Vertical Working set model for page replacement is based on the assumption of **Options:** modularity locality globalization

Question Number: 81 Question Id: 254528681 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

random access



Question Number: 85 Question Id: 254528685 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical Consider the join of a relation R with relation S. If R has m tuples and S has n tuples, then the maximum size of join of R and S is **Options:** mn m + n(m + n)/22(m+n)Question Number: 86 Question Id: 254528686 Display Question Number: Yes Single Line Question Option: No Option Orientation : Vertical Data Manipulation Language (DML) is not to **Options:** Create information table in the Database Insert new information into the Database Delete information from the Database Modify information in the Database Question Number: 87 Question Id: 254528687 Display Question Number: Yes Single Line Question Option: No Option **Orientation: Vertical** The primary key is selected from the BANK.COM **Options:** composite keys determinants candidate keys foreign keys Question Number: 88 Question Id: 254528688 Display Question Number: Yes Single Line Question Option: No Option **Orientation**: Vertical To remove duplicate rows from the results of an SQL SELECT statement, the

qualifier must be included.

DISTINCT SINGLE Question Number: 89 Question Id: 254528689 Display Question Number: Yes Single Line Question Option: No Option **Orientation: Vertical** For a weak entity set to be meaningful, it must be associated with another entity set called **Options:** Identifying set Owner set Neighbor set Strong entity set Question Number: 90 Question Id: 254528690 Display Question Number: Yes Single Line Question Option: No Option In a transaction, which of the following will undo all statements up to commit? **Options:** Commit Flashback Rollback Abort Question Number: 91 Question Id: 254528691 Display Question Number: Yes Single Line Question Option: No Option Which of the following is not used as a cost estimation technique during the project planning stage? **Options:** Delphi technique Expert judgment

Program Evaluation Review Technique(PERT)

Function Points(FP)

Options: performance testing 2 structural testing 3 functional testing 4 mutation testing Question Number: 93 Question Id: 254528693 Display Question Number: Yes Single Line Question Option: No Option Orientation : Vertical Which one of the following assertions concerning code inspection and code walkthrough is true? **Options:** Code inspection is carried out once the code has been unit tested 1. Code inspection and code walkthrough are synonyms Adherence to coding standards is checked during code inspection Code walkthrough is usually carried out by an independent test team Question Number: 94 Question Id: 254528694 Display Question Number: Yes Single Line Question Option: No Option In which of the following process models, risk is evaluated and managed at each stage of development? **Options:**

Orientation: Vertical

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Waterfall model

Agile model

Unified Process model

Question Number: 95 Question Id: 254528695 Display Question Number: Yes Single Line Question Option: No Option **Orientation: Vertical**

The process of transforming source code to design is known as

Options:

Software refactoring

Re-engineering

Question Number: 96 Question Id: 254528696 Display Question Number: Yes Single Line Question Option: No Option **Orientation: Vertical**

Which of the following diagrams is used to depict interaction of messages between the objects using time ordering?

Options:

1.

State chart diagram

Collaboration diagram

Communication diagram

Sequence diagram

Question Number: 97 Question Id: 254528697 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Which three domains are typically depicted in software requirement models?

Options:

Architecture, interface, Component

Cost, Risk, Schedule

Information, Function, Behavior

Interface, Cost, Risk

Question Number: 98 Question Id: 254528698 Display Question Number: Yes Single Line Question Option: No Option

Which of the following is not considered as a tool at system design phase?

Options:

- Data flow diagram
- Decision table
- Pie chart

System flow chart

Question Number: 99 Question Id: 254528699 Display Question Number: Yes Single Line Question Option: No Option

Orientation: Vertical

System testing focuses on testing the interfaces between programs, program testing focuses on individual programs

- System testing is tough and program testing is easy
- Both the program testing and system testing are of similar toughness

Question Number: 100 Question Id: 254528700 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Which of the following activities is not involved in software walk-through?

Options:

- Improve quality of a subsystem through peer review
- Presentation of line-by-line code to the members of the team
 - Identification of errors in the code
- Identifying conflicts in design goals

Question Number: 101 Question Id: 254528701 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

What is the one service/guarantee that UDP provides to application layer protocols?

Options:

- Error detection
- 2 Security
- Connection oriented service

Piggy backing

Question Number: 102 Question Id: 254528702 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

The address of class B host is to split into subnets with a six-bit number. What is the maximum number of subnets and the maximum number of hosts in each subnet?

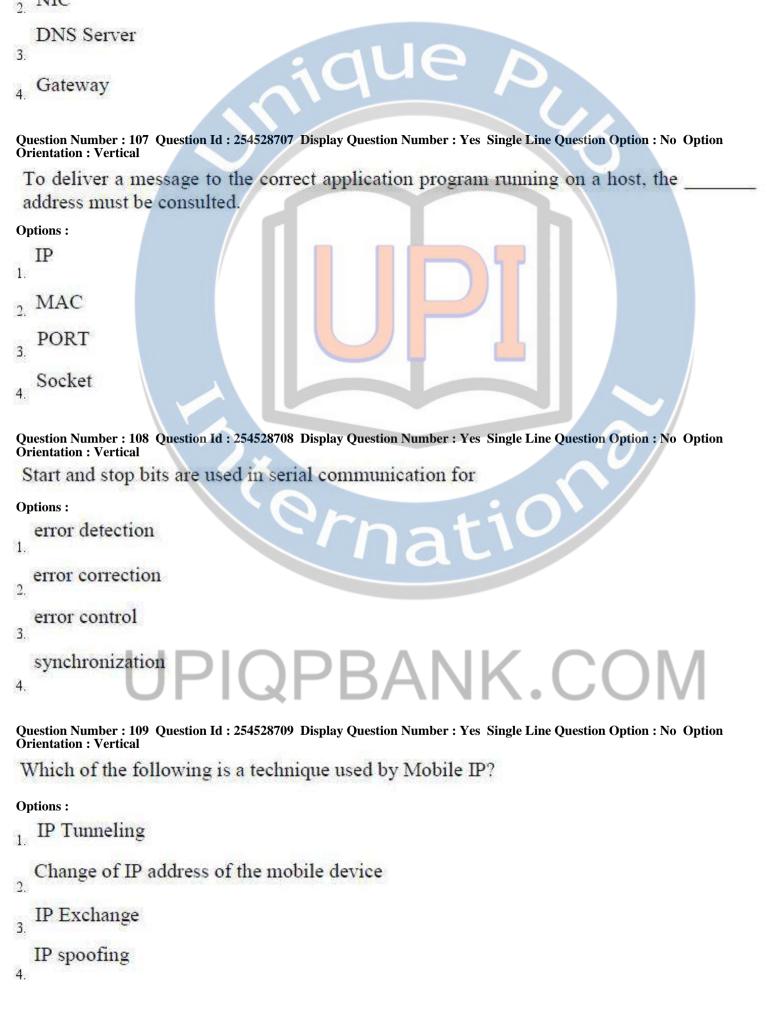
- 64 subnets, 64 hosts
- 64 subnets, 1024 hosts
- 64 subnets, 2048 hosts

Question Number: 105 Question 1d: 254526705 Display Question Number: 1es Single Line Question Option: No Option **Orientation: Vertical** Which of the following are used to generate a message digest by the network security protocols? (P) RSA (Q) SHA-1 (S) MD5 (R) DES **Options:** P and R only Q and R only Q and S only P and S only Question Number: 104 Question Id: 254528704 Display Question Number: Yes Single Line Question Option: No Option **Orientation: Vertical** Port number for POP protocol is **Options:** 220 ier 140110 Question Number: 105 Question Id: 254528705 Display Question Number: Yes Single Line Question Option: No Option **Orientation: Vertical** Which data communication method is used to transmit the data over communication link? **Options:** Simplex Half-duplex Full duplex

Question Number: 106 Question Id: 254528706 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Synchronous

Which of the following devices is a PC component that connects the computer to the network?



Options:
Through symmetric encryption such as RSA
Through asymmetric encryption such as Data Encryption Standard (DES)
Through asymmetric encryption such as Advanced Encryption Standard (AES)
Through symmetric encryption such as Data Encryption Standard (DES)
Question Number: 111 Question Id: 254528711 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical
A layer-4 firewall (a device that can look at all protocol headers up to the transport layer)
Options:
block entire HTTP traffic during 9:00 PM and 5:00 AM
block all ICMP traffic
stop incoming traffic from a specific IP address but allow outgoing traffic to the same 3. IP address
block TCP traffic from a specific user on a multi-user system during 9:00 PM and 5:00 AM
Question Number: 112 Question Id: 254528712 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical
Which of the following protocols uses link-state routing algorithm?
Options: UPIQPBANK.COM
BGP 2.
3 OSPF
FTP 4.
Question Number: 113 Question Id: 254528713 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical
Which of the following attacks, an Ideal password authentication scheme should withstand?
Options:

IP address spoofing
Sniffer attack 30UE
Question Number: 114 Question Id: 254528714 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical
The number of allowed hops for an IP packet is kept in thefield.
Options:
ToS
2, IHL
3. Frag. Off.
4 TTL
Question Number: 115 Question Id: 254528715 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical
Which e-mail protocol creates multiple mail boxes?
Options:
SMTP
POP Crnatio
3. IMAP
http 4.
Question Number: 116 Question Id: 254528716 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical The way of writing HTML that emphasizes the meaning of the encoded information over its presentation (look) is called
Options:
XHTML
SGML
3. S-HTML
XML

 $Question\ Number: Yes\ Single\ Line\ Question\ Option: No\ Option\ Orientation: Vertical$

1. Class

- id
- dot
- 4. href

Question Number: 118 Question Id: 254528718 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Which one of the following is not a client-server application?

Options:

- Internet chat
- Web browsing
- ₂ E-mail
- Ping

Question Number: 119 Question Id: 254528719 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

External CSS file can be linked to HTML using

Options:

- , k>
- ຸ <style>
- 3 <add>
- 4 <href>

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Question Number: 120 Question Id: 254528720 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

XML tag begins with

- (# xml version = "1.0"#)
- (xml version = "1.0")
- (? xml version = "1.0"?)
- (@ xml version = "1.0"@)