# **PU M Tech Network and Internet Engineering**

185	F <b>100</b> PU_2015_394
In L	inux, command would display all lines in a file that starts with a particular string.
	look
	view
	list
	show
140 If th	f 100 PU_2015_394 e instruction contains operation code and address of the operand, the instruction is said to be in the:-
	Indexed mode
	Direct addressing mode
	Immediate addressing mode
0	Memory addressing
105	F 100 PU_2015_394 Band provides:- FTTH internet access Telephone access Satellite access Cable access
218	PU_2015_394 ursive descent parsing is an example of:- Bottom up parsing Predictive parsing Operator precedence parsing
	Top down parsing
200	F 100 PU_2015_394 sively parallel machine is:-  Describes the structure of the contents of a database
0	A computer where each processor has its own operating system, its own memory and its own hard
disk	
	A programming language based on logic

0	A computer with several processors
215	f 100 PU_2015_394 graph showing interdependencies of the attributes of different nodes in parse tree is:-
	Data Flow diagram
	Flow graph
	Dependency graph
	Dependency Directed graph
195 Whi	f 100 PU_2015_394 ich is not true?
0	The intersection of two context-free languages is context-free
	The reverse of a context-free language is context-free, but the complement need not be
	The union and concatenation of two context-free languages is context-free
	Every regular language is context-free because it can be described by a regular grammar
189	f 100 PU_2015_394 pot machine might have cameras and infrared range finders for and various motors of
1100	and various migrations and initiation range initiation for
	·
	Actuators ; Sensors
	Actuators ; Sensors Sensors ; Agents
0	Actuators ; Sensors
9 0 157	Actuators ; Sensors Sensors ; Agents Agents ; Actuators
9 0 157	Actuators ; Sensors  Sensors ; Agents  Agents ; Actuators  Sensors ; Actuators  f 100  PU_2015_394
9 o 157 The	Actuators ; Sensors  Sensors ; Agents  Agents ; Actuators  Sensors ; Actuators  f 100  PU_2015_394  method of assigning a part of the main-memory address space to I/O ports is called:-
9 o 157 The	Actuators ; Sensors  Sensors ; Agents  Agents ; Actuators  Sensors ; Actuators  f 100  PU_2015_394  method of assigning a part of the main-memory address space to I/O ports is called:-  Memory-mapped I/O
9 oo 1577 The	Actuators; Sensors Sensors; Agents Agents; Actuators Sensors; Actuators  f 100 PU_2015_394 method of assigning a part of the main-memory address space to I/O ports is called:- Memory-mapped I/O I/O mapped I/O
9 o 157 The C C C 217	Actuators; Sensors  Sensors; Agents  Agents; Actuators  Sensors; Actuators  f 100  PU_2015_394 method of assigning a part of the main-memory address space to I/O ports is called:-  Memory-mapped I/O  I/O mapped I/O  I/O Mapping
9 o 157 The C C C 217	Actuators; Sensors  Sensors; Agents  Agents; Actuators  Sensors; Actuators  f 100  PU_2015_394  method of assigning a part of the main-memory address space to I/O ports is called:-  Memory-mapped I/O  I/O mapped I/O  I/O Mapping  Peripheral I/O  of 100  PU_2015_394

	Direct acyclic graph
	Dependency graph
	of 100 PU_2015_394 is required to build native code applications in Android environment.
0	CLR
	ARR
	NDK
	APK
187	of 100 PU_2015_394 enCV is a:-
	Computer Vision Library
	Composite media Library
	Computer Video Library
	Complex Vision Library
106	of 100 PU_2015_394 at is FRAD in frame relay network?
	FRAD is used for error detection
	FRAD is used for error correction
	FRAD assembles and disassembles the frames coming from other protocols
	FRAD is used for modulation and demodulation
214 If tw	of 100 PU_2015_394 of finite state machines M1 and M2 are isomorphic then:-
	They cannot be transformed to each other
	By relabeling edges M1 can be transformed to M2
	By relabeling states M1 can be transformed to M2
	By relabeling both edges and states M1 can be transformed to M2
204	of 100 PU_2015_394 ich is not Familiar Connectives in First Order Logic?
	If
	Or

	And
	Not
199 Evo	of 100 PU_2015_394 Pulutionary computation is:- Combining different types of method or information Used to solve complex evolving problems Decision support systems that contain an information base filled with the knowledge of an expert nulated in terms of if-then rules  Approach to the design of learning algorithms that is structured along the lines of the theory of lution
178	of 100 PU_2015_394 recently released development environment for Android App development is called:- Android Backer Android Studio Android Builder Android Pad
211	of 100 PU_2015_394 at is used for tracking uncertain events?  Sensors  Tracker  Actuators  Filtering algorithm
202	of 100 PU_2015_394 at does the bayesian network provide?  Complete description of the problem  Partial description of the domain  A network with probabilistic values  Complete description of the domain
212	of 100 PU_2015_394 Pphole optimization is a technique for:- It does not generate code

	Locally improving the target code
	Restricted improvement of code
	Generate ready to execute code
196 Indu	of 100 PU_2015_394 uctive learning involves finding a:-
	Regular Hypothesis
	Inconsistent Hypothesis
	Irregular Hypothesis
	Consistent Hypothesis
156 Who	of 100 PU_2015_394 en a free block (k bytes) is allocated to make room for the new incoming process (p bytes) and (where p), the block is split into used area and unused area ( k - p) is called:-
	Compaction
	Internal fragmentation
	Swapping
	External fragmentation
209	of 100 PU_2015_394 ich is used to compute the truth of any sentence?  Predicate logic  First-order logic
	Semantics of propositional logic
	Alpha-beta pruning
194	of 100 PU_2015_394 n Unsupervised learning:-
0	Neither inputs nor outputs are given
	Specific output values are given
	Specific output values are not given
	No specific inputs are given
201	of 100 PU_2015_394 ich is not a desirable property of a logical rule-based system?

	Attachment
	Truth-Functionality
	Locality
	Detachment
184 Witl	of 100 PU_2015_394 h respect to networks, ARP stands for:-
	Advanced Rapid Protocol
	Address Resolution Protocol
	Address Reservation Protocol
	Advanced Resource Protocol
163	of 100 B PU_2015_394 ich of the following is a recently exposed vulnerability?
	ViNets
	Tracknet
	Heartbleed
	Heartbeat
103 For	of 100 3 PU_2015_394 connecting modem, a computer must be equipped with a port that conforms to the RS-232 standard he Electronic Industries Association of America. What do the letters 'RS' stand for?
	Recognised Standard
	Random Sequence
	Registered Source
	Recommended Standard
	Recommended Standard
	of 100 3 PU_2015_394
	of 100 3 PU_2015_394 provides secure tunneling capabilities.
183	of 100 3 PU_2015_394 provides secure tunneling capabilities.  OpenVSH
183	of 100 3 PU_2015_394 provides secure tunneling capabilities.
183	of 100 3 PU_2015_394 provides secure tunneling capabilities.  OpenVSH  OpenESH

Whi	ich is not a property of representation of knowledge?
	Inferential Efficiency
	Representational Adequacy
	Representational Verification
	Inferential Adequacy
198	of 100 PU_2015_394 rd component of a planning system is to:- Detect when a solution has been found Detect when solution will be found Detect whether multiple solutions exist Detect whether solution exists or not
207	of 100 PU_2015_394 at was originally called the "imitation game" by its creator? The Logic Theorist The Turing Test Cybernetics Lisp
188	of 100 PU_2015_394 original LISP machines produced by both LMI and Symbolics were based on research performed at: RAMD Stanford University CMU MIT
210	of 100 PU_2015_394 auto-associative network is:- A neural network that contains no loops A neural network that has only one loop A single layer feed-forward neural network with pre-processing A neural network that contains feedback
	of 100 PU_2015_394

Whi	ch of the following is not free and open source license?
	MIT
	Windows
	Apache
	Creative Commons
197	PU_2015_394 at is Transposition rule?  From $P \rightarrow Q$ , infer $\sim Q \rightarrow \sim P$ From $P \rightarrow Q$ , infer $Q \rightarrow \sim P$ From $P \rightarrow Q$ , infer $Q \rightarrow \sim P$ From $P \rightarrow Q$ , infer $\sim Q \rightarrow P$ From $P \rightarrow Q$ , infer $\sim Q \rightarrow P$
219	PU_2015_394 perator precedence parsing, precedence relations are defined:- Only for certain pairs of terminals Only for certain pairs of non-terminals For all pairs of non-terminals and terminals To delimit the handler
141	PU_2015_394 CMP instruction is used to perform:- Two's complement operation One's complement operation Compare Operation Complement Operation
113	PU_2015_394 ch of the following is not a form of DoS attack?  Vulnerability attack  Connection flooding  Bandwidth flooding  Man in the middle attack
	of 100 PU_2015_394

Zote	ero is a:-
	Browser
	Reference Manager
	Protocol
	Firewall
179	PU_2015_394 ch of the following is associated with Big Data?  Hadoop  Big L  Chrome  Data centre
	of 100 PU_2015_394 is an environment in which the search takes place.
0	Problem instance Problem space Problem place Data space
206 How	PU_2015_394 r many possible sources of complexity are there in forward chaining?  1 4 3 2
155 The	PU_2015_394 dynamic RAM is constructed with the help of:- Memory cells Semiconductor memory Flip flops Capacitors
	of 100 PU_2015_394

	is a major problem of using Pointers.
	Virtuality
	Speed
	Dangling Pointers
	Storage
180 Wh	of 100 PU_2015_394 ich of the following is not related to programming?  C+  VB  QT
	C#
169	of 100 PU_2015_394 ON stands for:- JavaScript Object Notation JavaScript Ontology Notation JavaScript Object Naming JavaScript Original Notation
139	of 100 PU_2015_394 rogram that interprets the input from a keyboard and converts input into its binary equivalent is called:- Binary Converter Linker
	Monitor Program
	Loader
104	of 100 PU_2015_394 at is the port number for POP3?  110 90 10
	of 100 PU_2015_394

The	operation that performs subtraction operation without using subtraction operation is called:-
	Two's complement operation
	Subtraction operation
	Twos' complement addition
	One's complement operation
	of 100 PU_2015_394 are rules of thumb that may solve a given problem, but do not guarantee a solution.
	Weak methods
	Strong methods
	Probabilistic
	Heuristic
213	of 100 PU_2015_394 sider the grammar:
	→ ABSC/Abc → AB
Bb -	$\rightarrow$ bb
	→ ab → aa
Whi	ich of the following sentences can be generated by this grammar?
	abcc
	aabc
	abc
	aab
208 Wha	of 100 PU_2015_394 at is the advantage of totally ordered plan in constructing the plan?
	Flexibility
	Availability
	Easy to use
	Reliability
203	of 100 PU_2015_394 ich of the following "laws" Azimov's first and most important law of robotics?
	robots should be used to eliminate jobs of human workers

	Robots must never take actions harmful to humans
	Robot actions must never result in damage to the robot
	Robots must make business a greater profit
182	of 100 PU_2015_394 ich of the following is a Vulnerability scanning tool?  Vulscan  VScanner  VulNET
<b>56</b> 205	OpenVAS  of 100 5 PU_2015_394 ich is more suitable normal form to be used with definite clause?  Generalized modus ponens  Positive literal  Negative literal  Neutral literal
216	of 100 8 PU_2015_394 ich of the following is not an intermediate code form? Postfix notation Quadruples Syntax trees Three address codes
177 Whi	of 100 'PU_2015_394 ich of the following is a popular choice for data storage in Android application development?  Sqlite  ASQL  PSQL  SQL+
175	of 100 5 PU_2015_394 e accessibility guidelines for rich internet applications is called as:- ARIA

	RIA 2.0
	RIA+
	RIAS
193	of 100 PU_2015_394 chine learning is:-
	The selective acquisition of knowledge through the use of computer programs
	The selective acquisition of knowledge through the use of manual programs
	The autonomous acquisition of knowledge through the use of manual programs
	The autonomous acquisition of knowledge through the use of computer programs
	of 100 PU_2015_394 selects from jobs in memory those jobs that are ready to execute and allocates the CPU to m.  Short-term (CPU scheduler)  Medium-term scheduler  Long-term (Job scheduler)  Long-term (CPU scheduler)
254	of 100 PU_2015_394 ich of the following operator takes only integer operands? + % *
248 Cornan	of 100 PU_2015_394 Isider a paging system with the page table stored in memory. If a memory reference takes 200 oseconds, how long does a paged memory reference take?  400 nanoseconds 100 nanoseconds 200 nanoseconds 300 nanoseconds
	of 100 PU_2015_394

A grammar where all the productions are in the form  $A \rightarrow BC$  or  $A \rightarrow a$  is said to be in:-

	Chomsky Normal Form
	Boyce Codd Normal Form
	Well Formed
	Greibach Normal Form
255 Wh	of 100 5 PU_2015_394 o invented the C Language?
	James Gosling
	Bjarne Stroustrup's
	Dennis Ritche
	Tim Berners-Lee
250 Wh	of 100 PU_2015_394 at does Belady's Anomaly related to?
	Memory Management Algorithm
	Disk Scheduling Algorithm
	Page Replacement Algorithm
	Deadlock Prevention Algorithm
Cor per refe	OF 100 OF PU_2015_394 Insider a paging system with the page table stored in memory. If we add associative registers, and 75 count of all page-table references are found in the associative registers, what is the effective memory erence time? (Assume that finding a page-table entry in the associative registers takes zero time, if the ry is there.)  Effective access time = 350 nanoseconds  Effective access time = 250 nanoseconds  Effective access time = 750 nanoseconds  Effective access time = 300 nanoseconds
251 Wh	of 100 PU_2015_394 at is dispatch latency?
	The time taken to seek a file in disk
	The whole time taken by all processors
	The time taken by the dispatcher to stop one process and start another
	The time taken by the processor to write a file into disk

		-	_	_
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ns		- 1	.,	u

238 PU\_2015\_394

		is a much more effective way of overlapping I/O and CPU operations.
	Schedulers	
0	Spooling	

Perfecting

Buffering

# 70 of 100

235 PU\_2015\_394

Match the following:- (Codes)

1	Chomsky Normal form	1	S → bSS/aS/c
2	Greibach Normal form	ii	S → aSb/ab
3	S Grammar	iii	$S \rightarrow AS/a$ $A \rightarrow SA/b$
4	LL(1) Grammar	iv	$S \rightarrow aBB/aB/a$ $B \rightarrow b$

1 - iii; 2 - iv; 3 - i; 4 - ii
1 - iii; 2 - iv; 3 - ii; 4 - i
1 - iii; 2 - i; 3 - ii; 4 - iv
1 - iv; 2 - iii; 3 - i; 4 - ii

## 71 of 100

237 PU\_2015\_394

System uses	CPU scheduling and	multiprogramming to	provide economical
interactive use of a system.			

Real time
Interactive
Batch
Time sharing

### 72 of 100

252 PU\_2015\_394

What are two types of Semaphores?

Counting semaphore and Binary semaphore
Analog semaphore and Digital semaphore
Critical semaphore and System semaphore

	Digital semaphore and Binary semaphore
234	of 100 PU_2015_394 sider the following statements:
2. R	Recursive languages are closed under complementation Recursively enumerable languages are closed under union Recursively enumerable languages are closed under complementation
	ch of the above statements are true?  1 and 2  1 only  2 and 3  1 and 2 and 3
243 CPU Give	PU_2015_394 U scheduling algorithm determines an order for the execution of its scheduled processes. See a processe to be scheduled on one processor, how many possible different Schedules are there? The a formula in terms of n. $n/2$ $n! (n \text{ factorial} = n_n - 1_n - 22_1)$ $\log n$ $n+1$
233	PU_2015_394 ich of the following is not a part of LL(1) parsing?  Pointers  Queue  Input buffer  Stack
259	PU_2015_394 pose the correct statement.  Non zero value represents a false condition  1 represents a false condition  Anything that is not 1, represents a false condition  0 represents a false condition

	PU_2015_394 en the grammar:
S	$\rightarrow$ aSa, S $\rightarrow$ bSb, S $\rightarrow$ b, S $\rightarrow$ a. S $\rightarrow$ $\epsilon$
Whi	ch of the following strings is NOT a valid sentence of the grammar? baabaab abbbbbbbbbbba abbaabb babababa
220	PU_2015_394 k) grammar:-  Can only examine a maximum of k input symbols  Covers the LL(k) class  Defines handles of length k input symbols  Can be used to identify the production associated with a handle
256	of 100 PU_2015_394 v many tokens are in the:
	ge==2) 4 7 6 5
253	of 100 PU_2015_394 ch of the following file format supports in windows 7?  EXT  WFS  NTFS  BSD
275	of 100 PU_2015_394 ch of the following statements are TRUE?

1. The problem of determining whether there exists a cycle in an undirected graph is in P.

<ul> <li>2. The problem of determining whether there exists a cycle in an undirected graph is NP.</li> <li>3. If a problem A is NP complete, there exists a non-deterministic time algorithm to solve A.</li> <li>1 and 3 only</li> <li>1, 2 and 3</li> <li>2 and 3 only</li> <li>1 and 2 only</li> </ul>
82 of 100 284 PU_2015_394 While inserting the elements 71, 65, 84, 69, 83 in an empty binary search tree(BST) in the sequence shown, the element in the lowest level is:-  69  83  65  67
83 of 100 286 PU_2015_394 A problem L is NP-complete if L is NP-hard and:- $L \in NP$ $L \cap NP$
84 of 100 285 PU_2015_394 Consider the following array of elements. (89, 19, 50, 17, 12, 15, 2, 5, 7, 11, 6, 9, 100)
The minimum number of interchanges needed to convert it into a max-heap is:-  5  2  3  4
85 of 100 261 PU_2015_394 A function contained within the class is called:-  Friend  Generic

	Virtual
	Inline
260	of 100 PU_2015_394 sses are useful because they:- Permit data to be hidden from other classes Can closely model objects in the real world Bring together all aspects of an entity in one place Are removed from memory when not in use
296 If A,	of 100 PU_2015_394 , B and C are the attributes of a relation schema R, which one of the following is the transitive ctional dependency?  A determines B, B determines C and A determines C  A determines B and C determines A  A determines C and C determines B  A determines B and B determines A
287 Wha	of 100 PU_2015_394 at would be the cost value for any answering node of a sub tree with root 'r' using branch-bound brithm? Average Optimal Minimum Maximum

### 89 of 100

274 PU\_2015\_394

Consider list recursive algorithms and list recurrence relations as shown below. Each recurrence relation corresponds to exactly one algorithm and is used to derive the time complexity of the algorithm.

Recursive Algorithm	Recurrence Relation
P. Binary Search	1. $T(n) = T(n-k) + T(k) + c n$
Q. Merge Sort	2. $T(n) = 2T(n-1) + 1$
R. Quick Sort	3. $T(n) = 2T(n/2) + c n$
S. Tower of Hanoi	4. $T(n) = T(n/2) + 1$

Which of the following is correct match between the algorithms and their recurrence relations?

	P - 4, Q - 2, R - 1, S - 3						
	P - 3, Q - 2, R - 4, S - 1						
	P - 4, Q - 3, R - 1, S - 2						
	P - 2, Q - 3, R - 4, S - 1						
278	of 100 $3 \text{ PU}_2015_394$ $n) = n!$ , $g(n) = 2 \text{ n h(n)} = n (\log 2 \text{ n)}$ , which of the following is true? f(n) = O(g(n)), $g(n) = O(h(n))$						
0							
	$g(n) = O(f(n)), h(n) = O(f(n))$ $h(n) = O(f(n), g(n) = \Omega(f(n))$						
	$f(n) = \Omega(g(n), g(n) = \Omega(f(n))$ $f(n) = \Omega(g(n), g(n) = O(h(n))$						
276 Let deg	of 100 5 PU_2015_394 T be a depth first search tree in an undirected graph G. Vertices u and v are leaves of this tree T. The grees of both u and v are at least 2. Which one of following statements is true?						
	There must be exists of a cycle in G containing u and v						
	There must exist a vertex w whose removal disconnects a and vim G						
	There must exist a cycle in G containing u and its neighbor in G						
	There must exists a vertex w adjacent to both u and v in G						
266	of 100 S PU_2015_394 band the acronym AWT.						
	Absolutely Wonderful Toolkit						
	A Web Toolkit						
	Application With Types						
	Abstract Windowing Toolkit						
277 The	of 100 7 PU_2015_394 e depth first traversal of a graph G with n vertices, k edges is marked as tree edges. The number of nected components in G is:-  n - k  k + 1						
	k						
	n - k - 1						
94	of 100						

	-		gy st	tops	the e	execu	tion	wher	n it fi	inds	s the solution otherwise starts the problem from
	Back tracking										
	Branch and bound										
0	Dynamic programming										
	Divide and conquer										
27 Th of	nodes in a b	ee is						st roo	ot-to	-lea	af path in it. The maximum and minimum number
0	31 and 5, i	31 and 5, respectively									
	52 and 0, 1	32 and 6, respectively									
0	os and o, i	63 and 6, respectively									
	64 and 5,	64 and 5, respectively									
96 of 100 273 PU_2015_394 Consider a max heap, represented by the array: 40,30,20,10,15,16,17,8,4.											
1	Array	1	2	3	4	5	б	7	8	9	
	Index										
L	Value	40	30	20	10	15	16	17	8	4	
Now consider that a value 35 is inserted into this heap. After insertion, the new heap is:  40,35,20,10,30,16,17,8,4,15  40,30,20,10,15,16,17,8,4,35  40,30,20,10,35,16,17,8,4,15  40,35,20,10,15,16,17,8,4,30											
29	of 100 7 PU_2015_ TP stands fo										
0	Online Tra	ınsac	tion	Proc	essir	ng					
	Oracle Lar	Oracle Language Transaction Processing									
	Oracle Los	Oracle Lossless Transaction Processing									
	Open Lan	Open Language Transaction Processing									
98	of 100										

295 PU\_2015\_394

Kerning of fonts refers to the:-									
	Spacing of a group of characters								
	Spacing between two individual characters								
	Underlining of letters								
	Substitution of fonts in a web page								
	of 100 PU_2015_394								
0	result evaluating the postfix expression $^{10.5+60.6~/*8-}$ is:- 213 71 284 142								
267	of 100 PU_2015_394 ch is a reserved word in the Java programming language? Array Native Method								
9	Subclass								