Examination: Ph.D Computer Science and Engineering	
SECTION 1 - SECTION 1	
Question No.1	
Which of the following protocol is used to secure a VPN connection? IPSec	
○ L2TP	
○ SSL	
⊚ TLS	
Question No.2	
Each printf statement prints 2 addresses. Select the line in which 2 addresses are same.	
#include <stdio.h> int main()</stdio.h>	
int a[6]={1,2,3,4,5,6}; printf("%ul,%ul,",a,&a); //Line 1	
printf("%ul,%ul,",a+1,&a+1); //Line 2	
printf("%ul,%ul",a+6,&a+1);//Line 3 }	
□ Line 1 & Line 3	
Only line 2	
Only line 1	
○ Line 1 & Line 2	
Question No.3	
The minimum number of comparisons required to find the minimum and the maximum of 100 numbers is	
○ 198	
147	
10099	
Question No.4	
In the process table entry for the kernel process, the process id value is	
0	
0 1	
255it does not have a process table entry	
Question No.5	
The complexity of merge sort algorithm is ○ O(n)	
○ O(n) ○ O(n log n)	
○ O(log n)	
\bigcirc O(n ²)	
Question No.6	
Which of the following facts about reinforcement learnings are TRUE? I. Either Supervisory or Unsupervisory learning	
II. Neither Supervisory nor Unsupervisory learning	
III. Can be modeled as Markov decision process IV. Can be modeled as Hidden Markov decision process	
© Either I or IV	
Both I and IV	
Both II and III Both II and III	
Dom ii and iii	
Question No.7	
The maximum number of edges in a bipartite graph on 12 vertices is	

3648	
Question No.8	
An accurate and efficient raster line-generating algorithm is DDA algorithm Mid-point algorithm Bresenham's line algorithm Parallel line algorithm	
Question No.9	
For the processes listed in the following table, which of the following scheduling schemes will give the lowest average turnaround time? Process P1 P2 P3 P4 Arrival Time 0 1 4 6 Execution Time 3 6 4 2 First Come First Serve Shortest Remaining Time Non- pre emptive Shortest Job First Round Robin with Quantum value two	
Question No.10	Т
The total number of passes required in a selection sort is n-1 n × n n n+1	
Question No.11	
Which of the following techniques are useful for prediction? Gaussian Mixture model Linear Regression Support Vector Machine Logistic Regression	
Question No.12	
What is the algorithm to handle collisions in ethernet networks? Collision Pooling ARP Time Division Mux exponential-backoff	
Question No.13	
The maximum number of super keys for the relation schema R (A, B, C, D) with A as the key is 5 8 10 9	
Question No.14	
Which of the following data structure is not linear? Arrays Linked lists Both Arrays and Linked lists None of these	
Question No.15	
A program containing 50% of floating point arithmetic completes in 100 cycles in a certain processor. The processor is replaced by a faster processor that executes floating point arithmetic 5 times faster. What is the overall speedup by the new processor? © 1.3	

1.91.51.7	
Question No.16	_
Distance Vector Routing uses to determine distances to its own neighbors. incoming vectors leaky bucket ping outgoing packets	
Question No.17	
Consider the matrix 1 2 3 0 4 7 0 0 3 Which one of the following options provides the correct values of the Eigenvalues of the matrix? 1,2,3 2,7,3 3,7,3 1,4,3	
Question No.18	_
shows the dependencies between activities, the estimated time required to reach each milestone and the allocation of people activities. Reporting Mechanisms Project Schedule Risk Analysis Project Organization	
Question No.19	
The minimum number of edges in a connected cycle graph on n vertices is n n-1 n+1 n * n	_
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The minimum number of edges in a connected cycle graph on n vertices is n-1 n+1 n*n Question No.20 Zero has two representation in: Sign magnitude 1's Complement 2's Complement None of these Question No.21	_
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The minimum number of edges in a connected cycle graph on n vertices is n-1 n+1 n*n Question No.20 Zero has two representation in: Sign magnitude 1's Complement 2's Complement None of these Question No.21 What is the minimum number of NAND gates required to implement a 2-input EXCLUSIVE-OR function without using any other logic gate? 6 3 5 4	_

Poor response times are usually caused by

	Process busy	
	High I/O ratesHigh paging rates	
	Any of these	
_		
	Question No.24	
	What is the name of the fixed route established at the time of initial connection setup in ATM networks?	
	passage	
	○ VPN	
	virtual circuitconnection network	
	Connection network	
	Question No.25	
	Assume that a set of n distinct elements are given with an unlabeled binary tree of n nodes. In how many ways the tree can be populated w	vith
	the given set so that it becomes a binary search tree?	• 10.1
	0	
	0 1 (n+1)	
	○ 1/(n+1) ○ !n	
_	\(\tau\)	
	Question No.26	
	Consider the following list of properties:	
	1. Write buffering	
	Write serialization Write propagation	
	4. Write reflection	
	A good cache coherence protocol should exhibit:	
	2, 3, 4	
	0 1, 2, 3, 4	
	3, 4	
=		
	Question No.27	
	"Model selection" in machine learning refers to	
	Selection of Suitable mathematical model	
	Selection of Degree of polynomial	
	 Selection of Objective function Selection of Type of learning 	
	Question No.28	
	Which of the following is true	
	○ SQL is not a DML but it is a DDL	
	 SQL is neither a DDL nor a DML 	
	SQL is not a DDL but it is a DML	
	SQL is both a DDL and DML.	
	Question No.29	
	Which and of the following english API functions converts an unconnected active TCP scalest into a massive applicate	
	Which one of the following socket API functions converts an unconnected active TCP socket into a passive socket? © Connect	
	○ Listen	
	Accept	
	Bind	
_	Question No.30	
	What is the purpose of a test case specification in software engineering?	
	 To specify inputs, predicted results, and a set of execution conditions for a test item To list the test procedures to be performed on the integration of the software with hardware 	
	 To list the test procedures to be performed on the integration of the software with hardware To list the specific tests to be conducted on the integration of each software module with other modules 	
	To specify the sequence of actions for the execution of a test	
_		
	Question No.31	

ABC*++A*BCAB+C*ABC+*	
Question No.32	
Swapping.	
 Works best with many small partitions Does not work with overlaying 	
Allows each program in turn to use the memory	
Allows many programs to use memory simultaneously	
Question No.33	
In a graph, a path that traverses all the edges of the graph exactly once is called:	
Newtonian Path	
Djikstra's PathHamiltonian Path	
Eulerian Path	
Question No.34	
A full binary tree with n leaves contains	
n nodesnlogn nodes	
(2n-1) nodes	
2 ⁿ nodes	
Question No.35	
How many different trees are possible with 10 nodes?	
1014	
1240	
<u>1204</u>	
Question No.36	
The complexity of merge sort algorithm is	
O(n log n) O(n^2)	
○ O(n)	
○ O(log n)	
Question No.37	
Consider a non-pipelined processor with a clock rate of 2.5 gigahertz and average cycles per instruction of four. The same processor is	upgraded
to a pipelined processor with five stages; but due to the internal pipeline delay, the clock speed is reduced to 2 gigahertz. Assume that the no stalls in the pipeline. The speed up achieved in this pipelined processor is	here are
© 3	
© 3.2	
4.24	
Question No.38	
For 1 MB memory, the number of address lines required, 24	
16	
© 22	
© 11	
Ougstion No. 20	

Question No.39

Consider a main memory system that consists of 8 memory modules attached to the system bus, which is one word wide. When a write request is made, the bus is occupied for 100 nanoseconds (ns) by the data, address, and control signals. During the same 100 ns, and for 500 ns thereafter, the addressed memory module executes one cycle accepting and storing the data. The (internal) operation of different memory

modules may overlap in time, but only one request can be on the bus at any time. The maximum number of stores (of one word each) that be initiated in 1 millisecond is 5000 7000 10000 8000	can
Question No.40	
The minimum number of arithmetic operations required to evaluate the polynomial P(x) = x ⁵ + 4x ³ + 6x + 5 for a given value of x using only temporary variable. 8 7 9 6	one
Question No.41	
Data independence means	
Question No.42	
Two main measures for the efficiency of an algorithm are Processor and memory Complexity and capacity Data and space Time and space	
Question No.43	
The result of evaluating the postfix expression 105 + 606 / * 8 – is 71 284 142 213	
Question No.44	
Memory allocation of variables declared in a program is allocated in ROM assigned to registers allocated in RAM allocated on stack	
Question No.45	
The model which reduces the cost of development of software is waterfall model prototyping iterative All of these	
Question No.46	
Consider the following grammar G S -> F H F-> p c H -> d c Where, S,F, and H are non-terminal symbols, p, d, and care terminal symbols. Which of the following statement (s) is / are correct? S1. LL(1) can parse all strings that are generated using grammar G S2. LR(1) can parse all strings that are generated using grammar G Neither S1 nor S2 Both S1 and S2	
Only S1	

○ Either S1 or S2
Question No.47
Given the function F = P' + QR, where F is a function in three Boolean variables P, Q and R and P' =! P, consider the following statements. (S1) F=∑ (4, 5, 6) (S2)F=∑ (0, 1, 2, 3, 7) (S3)F=∏ (4, 5, 6) (S4)F=∏ (0, 1, 2, 3, 7) Which of the following is true? (S1)-False, (S2)-False, (S3)-True, (S4)-True (S1)-False, (S2)-False, (S3)-False, (S4)-True (S1)-False, (S2)-True, (S3)-True, (S4)-False
(S1)-True, (S2)-True, (S3)-False, (S4)- False
Question No.48
Which of the following is an advantage of view? ○ Data security
 Derived columns Hiding of complex queries
○ All of these
Question No.49
Piggy backing is a technique for Sequence
oretransmission
 ○ Flow control ○ Acknowledgement
Question No.50
What is garbage collection in the context of Java?
 The JVM checks the output of any Java program and deletes anything that doesn't make sense. Any package imported in a program and not used is automatically deleted.
The operating system periodically deletes all of the java files available on the system.
Question No.51
An operating system contains 3 user processes each requiring 2 units of resource R. The minimum number of units of R such that no deadlock will ever occur is:
○ 6
0 3 0 4
Question No.52
Suppose P, Q, R, S, T are sorted sequences having lengths 20, 24, 30, 35, 50 respectively. They are to be merged into a single sequence by
merging together two sequences at a time. The number of comparisons that will be needed in the worst case by the optimal algorithm for doing this is
↓ 458□ 258
↓ 452□ 358
Question No.53
If every node u in Graph (G) is adjacent to every other node v in G, it is called as
If every node u in Graph (G) is adjacent to every other node v in G, it is called as Complete Graph Multi Graph
Complete GraphMulti GraphDirected Graph
Complete Graph Multi Graph Directed Graph Connected Graph
Complete Graph Multi Graph Directed Graph Connected Graph Connected Graph
Complete Graph Multi Graph Directed Graph Connected Graph Connected Graph Question No.54 Which is not the state of the process? Blocked
Complete Graph Multi Graph Directed Graph Connected Graph Connected Graph Which is not the state of the process ?

Question No.55	
There are 8,15,13,14 nodes in 4 different trees, respectively. Which of them could form a full binary tree?	
○ 15	
O 14	
⊗ 8	
Question No.56	
Disk access takes of the order of	
x microsecsx millisecs	
○ x/100 secs	
o x nanosecs	
Question No.57	
Consider the following statements.	
TCP connections are full duplex II. TCP has no option for selective acknowledgement	
III. TCP connections are message streams Only I is correct	
Only I and III are correct	
Only II and III are correct	
○ All of I, II and III are correct	
Question No.58	
Whether Linked List is linear or Non-linear data structure?	
Non- Linear data structureLinear data structure	
Cyclic data structure	
 According to Access strategies Linked list is a linear one and According to Storage Linked List is a Non-linear one 	
Question No.59	
In functional classification of CASE tools, PERT tools, estimation tools, spread sheets are the examples of	
In functional classification of CASE tools, PERT tools, estimation tools, spread sheets are the examples of o planning tools	-
In functional classification of CASE tools, PERT tools, estimation tools, spread sheets are the examples of o planning tools o change management tools	
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In functional classification of CASE tools, PERT tools, estimation tools, spread sheets are the examples of planning tools change management tools configuration tools	
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Which of the following statement is false? arrays are dense lists and static data structure linked lists are collection of the nodes that contain information part and next pointer pointers store the next data element of a list data elements in linked list need not be stored in adjacent space in memory
Question No.64
In a Hierarchical model records are organized as
□ Links□ Graph
○ Tree
List
Question No.65
Assume that 4 processes are run on a single processor using preemptive Shortest Remaining Time Next scheduling algorithm with the arrival & CPU burst times, as given below. What is the burst time of P4 if the average waiting time of the process is 1 millisecond?
Process P1 P2 P3 P4
Arrival Time 0 1 3 4 CPU burst Time 3 1 3 ?
© 1
O 2
0 4 0 3
Question No.66
Which of the following project phases do Not require the involvement of end users? 1. Requirement analysis
Design Hardware/Software configuration
4. Programming 5. User Acceptance Testing
O 2,3.5
 1,3,5 1,4,5
2,3,4
Question No.67
Let the page fault service time be 10 ms in a computer with average memory access time being 20 ns. If one page fault is generated for every 106 memory accesses, what is the effective access time for the memory?
21 ns
30 ns
35 ns23 ns
Question No.68
What is the maximum number of nodes possible in a heap of height h ? (Assume the height of the root node is 0).
© 2 ^(h-1) -1
© 2 ^h -1
○ 2 ^(h-n) -1 ○ 2 ^(h+1) -1
Question No.69
The number of interchanges required to sort 5, 1, 6, 2, 4 in ascending order using Bubble sort is
© 6
© 5
0 7
Question No.70
Which of the following statements are NOT true about system analysis? 1. It is a detailed study of the existing programs

 2. It helps in understanding the complexity of the existing system 3. It helps in understanding the relationship between the subsystems and the main system 4. It helps in deciding the programming language to be used for developing the system 2 and 3 2 and 5 1 and 5 3 and 4 	
Question No.71	
A subnet mask in Class A has fourteen 1's. How many subnet does it define? 32 64 16 08	
Question No.72	
Given an IP address 156.233.42.56 with a subnet mask of 7 bit. How many hosts and subnets are possible? 512 hosts and 128 subnets 128 hosts and 512 subnets 126 hosts and 510 subnets 510 hosts and 126 subnets	
Question No.73	
Minimum number of D flip flops required to design mod-514 counter is 1024 10 514 9	
Question No.74	
Which of the following sorting methods would be most suitable for sorting a list which is almost sorted Selection Sort Insertion Sort Bubble Sort Quick Sort	
Question No.75	
Which one of the following correctly determines the solution of the recurrence relation $T(n)=2T(n/2)+\log(n)$ with $T(1)=1$?	
$\Theta(n \log n)$	
$igoplus heta(\log n)$ $igoplus heta(n)$	
\bigcirc $\Theta(\mathbf{n}^2)$	
Question No.76	
Consider a snippet of code to calculate the sum of elements in a one dimensional array. The loop exhibits: Spatial Locality of Reference only Temporal Locality of Reference only Spatial and temporal Locality of Reference Neither spatial nor temporal Locality of Reference	
Question No.77	
Suppose that a computer has 32K storage locations. Exactly how many storage locations are there? 3768 32000 32768 32700	
Question No.78	

There are 8,15,13,14 nodes in 4 different trees. Which of them could form a full binary tree?
1514
148
□ 13
Question No.79
Which of the following data structure cannot store the non-homogeneous data elements?
Arrays
Records
Pointers Name of these
 None of these
Question No.80
Datagrams using header extension are called
payload
 datagram packets
jumbograms
Question No.81
To deliver a message to the correct application program running on a host, the address must be consulted.
⊚ tunnel
o port
○ IP
physical
Question No.82
Which memory technology consumes the smallest area to store a bit?
HARD DISK
Blue Ray Disk
○ SDRAM
○ DRAM
Question No.83
A 4-way set-associative cache memory unit with a capacity of 16 KB is built using a block size of 8 words. The word length is 32 bits. The size of
the physical address space is 4 GB. The number of bits for the TAG field is
50
© 30
4030
© 20
Question No.84
The average number of key comparisons done in a successful sequential search in list of length n is
● n/2
O log n
(n-1)/2
○ (n+1)/2
Question No.85
You have an array of n elements. Suppose you implement quicksort by always choosing the central element of the array as the pivot. Then the
tightest upper bound for the worst case performance is
\circ O(n ³)
\bigcirc $\Theta(nLogn)$
O(nLogn)
\bigcirc O(n ²)
Question No.86

Two hosts are connected via a packet switch with 107 bits per second links. Each link has a propagation delay of 20 microseconds. The switch begins forwarding a packet 35 microseconds after it receives the same. If 10000 bits of data are to be transmitted between the two hosts using a

seconds is	О
○ 1657	
○ 1325	
O 3467	
○ 1575	
Question No.87	
Let $L_1=\{w\in\{0,1\} * w \text{ has at least as many occurrences of } (110)^s \text{s as } (011)^s \text{s} \}.$	
Let $L_2 = \{w \in \{0,1\} * w \text{ has at least as many occurrences of } (000) \text{'s as } (111) \text{'s} \}.$	
Which one of the following is TRUE?	
L2 is regular but not L1L1 is regular but not L2	
○ Neither L1 nor L2 are regular	
○ Both L1 and L2 are regular	
Question No.88	
Virtual memory is	
A hard of reconders wood in surror computers.	
 A type of memory used in super computers An extremely large main memory 	
An illusion of extremely large main memory	
Question No.89	
(1217) ₈ is equivalent to	
○ (028F) ₁₆	
○ (0B17) ₁₆	
(1217) ₁₆	
○ (2297) ₁₀	
Question No.90	
The minimum number of 8 port switches needed to connect 15 machines to be connected in a LAN is	
The minimum number of 8 port switches needed to connect 15 machines to be connected in a LAN is 1	
The minimum number of 8 port switches needed to connect 15 machines to be connected in a LAN is	-
The minimum number of 8 port switches needed to connect 15 machines to be connected in a LAN is 1 3	
The minimum number of 8 port switches needed to connect 15 machines to be connected in a LAN is 1 3 2	
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The minimum number of 8 port switches needed to connect 15 machines to be connected in a LAN is 1 3 2 4 Question No.91 Suppose Xi for i=1,2,3 are independent and identically distributed random variables whose probability mass functions are Pr[Xi=0]= Pr[Xi=1]=1/2 for i=1,2,3. Define another random variable Y =X1X2⊕ X3, where ⊕ denotes XOR. Then Pr[Y=0 X3=0] is equal to	
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Question No.94

If two fair coins are flipped and at least one of the outcomes is known to be head, what is the probability that both outcomes are heads?
1/32/3
© 1/4
O 1/2
Question No.95
How many page faults occur in LRU page replacement algorithm for the following reference string, with four page frames?
7, 0, 1, 2, 0, 3, 0, 4, 2, 3, 0, 3, 2, 1, 2, 0, 1
86
9
o 7
Question No.96
is a process of determining if a string of tokens can be generated by a grammer.
Phasing
O Translation
TranslationSystemization
Question No.97
Consider the following program segment:
j=2;
while(i%j)
j=j+1; if(j≤i) cout< <j;< td=""></j;<>
For a given i>=2, this program segment print j only if:-
j is a prime
i is not a prime
j is odd
⊚ j does not divide i
Question No.98
Problems encountered in IP networks are usually reported with this protocol.
O TCP
SMTPICMP
HTTP
Question No.99
Consider a machine with a byte addressable main memory of 220 bytes, block size of 16 bytes and a direct mapped cache having 212 cache
lines. Let the addresses of two consecutive bytes in main memory be (E201F)16 and (E2020)16. What are the tag and cache line address (in hex) for main memory address (E201F)16?
© E, E20
● F, 201
© E, 201
○ 2,01F
Question No.100
Which layer is responsible for flow control with sliding windows and reliability with sequence numbers and acknowledgments?
○ Transport
Network Interface
ApplicationInternet