Comprehensive Examination CSE - 2019 Batch

S.NO.	Questions	Choices	Answers
1	Given the following state table of an FSM with two states A and B, one input and one output: Present State A | Present State B | Input | Next State A | Next State B | Output 0 0 0 0 0 1 0 1 0 1 0 0 1 0 0 0 1 0 1 1 0 1 0 0 0 0 1 0 1 0 0 1 1 0 0 1 1 0 1 0 1 1 1 1 1 0 0 1 If the initial state is A=0, B=0, what is the minimum length of an input string which will take the machine to the state A=0, B=1 with Output = 1?	1. 3 2. 4 3. 5 4. 6	1.0
2	(a+b)(cd)*(a+b) denotes the following set	1. {a(cd)^nb|n>=1} 2. {a(cd)^n>=1}U{b(cd)^n|n>=1} 3. {a(cd)^na|n>=0}U{a(cd)^nb|n>=0}U{b(cd)^na|n>=0}U{b(cd)^nb|n>=0} 4. {ac^nd^nb|n>=1}	3.0
3	-24 is 2's complement form is	1. 11101000 2. 01111111 3. 01001000 4. 00111111	1.0
4	A 2 bit binary multiplier can be implemented using	1. 2 input ANDs only 2. 2 input X-ORs and 4-input AND gates only 3. XOR gates and shift registers 4. Two (2) input NORs and one XNOR gate	2.0
5	A _____ registrar stores the intermediate arithmetic and logic results in it.	1. Address registrar 2. Program counter 3. Index registrar 4. Accumulator	4.0

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6	A class is a	1. Structure 2. Memory 3. Template 4. Function	3.0
7	A constructor without any arguments is	1. default constructor 2. parameterized constructor 3. none 4. overloading	1.0
8	A default constructor is one that	1. that takes all default arguments 2. have to be called explictly 3. gets called automatically 4. does take many parameters	1.0
9	A finite automata that will accept only string X of length n will have _____ many states	1. n 2. n/2 3. n+1 4. infinite	3.0
10	A friend function to a class A cannot access	1. the data members of the derived class of A. 2. public data members and member functions. 3. protected data members and member functions. 4. private data members and member functions.	1.0
11	A property which is not true for classes is that they	1. Can closely model objects in the real world. 2. bring together all aspects of an entity in one place. 3. permit data to be hidden from other classes. 4. are removed from memory when not in use.	2.0
12	A quadruple is a record structure with _____ fields.	1. 3 2. 4 3. 1 4. 2	2.0
13	A Stack-organised Computer uses instruction of	1. Zero addressing 2. Two-addressing 3. Indirect addressing 4. Index addressing	1.0
14	Access to private data is	1. Restricted to methods of the same class 2. Restricted to methods of other classes 3. Available to methods of the same class and other classes 4. Not an issue because the program will not compile	1.0
15	All member functions are _____ to it's class by default	1. constant 2. non static 3. dynamic 4. static	4.0
16	An LALR(1) parser for a grammar G can have shift-reduce (S-R) conflicts if and only if	1. The LR(1) parser for G has S-R conflicts. 2. The LR(0) parser for G has S-R conflicts. 3. The LALR(1) parser for G has reduce-reduce conflicts 4. The SLR(1) parser for G has S-R conflicts.	1.0
17	An optimizing compiler	1. Is optimized to occupy less space 2. Optimized the code 3. Is optimized to take less time for execution 4. Secured Code	2.0

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18	An unambiguous grammar has	1. Exactly one leftmost derivation for a string w 2. At most one leftmost and one rightmost derivation for a string w 3. At most one rightmost derivation for a string w 4. Exactly one leftmost and rightmost derivation for a string w	1.0
19	An unambiguous grammar has	1. Exactly one leftmost derivation for a string w 2. At most one leftmost and one rightmost derivation for a string w 3. At most one rightmost derivation for a string w 4. Exactly one leftmost and rightmost derivation for a string w	1.0
20	ASCII, EBCDIC, and Unicode are examples of ----------	1. integrated circuits 2. binary coding schemes 3. two-state systems 4. adapter cards	1.0
21	baa*c denotes the set	1. {b^na^mc^p|n,m,p>=1} 2. {ba^nc|n>=0} 3. {ba^nc|n>=1} 4. {w|w is a string of a,b,c}	3.0
22	BCD to seven segment is a	1. encoder 2. carry look ahead 3. comparator 4. decoder	1.0
23	Calculate the person months for a project that was completed in two months with two people working on it.	1. 2 2. 4 3. 1 4. 8	2.0
24	class A { int a; static float b; } ; What is the size of class A?	1. sizeof(int) * 2 2. sizeof(int) + sizeof(float) 3. sizeof(int) 4. sizeof(float)	2.0
25	class n{ int a=0;}obj; what will happen?	1. nothing 2. initializes the data member with 0 3. error 4. initializes the object with 0	3.0
26	class n{ public: int *a;}o,p; assigning o=p is called?	1. deep copy 2. shallow copy 3. error 4. constructor	2.0
27	class n{ public: int a;} obj; obj.a=10; cout << a;	1. error 2. 10 3. 1 4. 0	1.0

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28	class n{ public: int a=7;}p,q; cout<< n.a;	1. 0 2. error 3. depends on compiler 4. 7	2.0
29	Consider the regular language L = (111 + 11111)*. The minimum number of states in any DFA accepting the language is	1. 3 2. 5 3. 8 4. 9	4.0
30	Content of the program counter is added to the address part of the instruction in order to obtain the effective address is called.	1. index addressing mode. 2. register mode. 3. implied mode. 4. relative address mode.	4.0
31	Data Members of the base class that are marked private:	1. are directly accessible in the derived class 2. are visible in the derived class 3. exist in memory when the object of the derived class is created the derived class 4. does exist in memory when the object of the derived class is created	4.0
32	Decimal number 9 in Gray code is	1. 1111 2. 1101 3. 1100 4. 1110	2.0
33	During a software development project two similar requirements defects were detected. One was detected in the requirements phase, and the other during the implementation phase. Which of the following statements is mostly likely to be true?	1. There is no relationship between the phase in which a defect is discovered and its repair cost. . 2. The most expensive defect to correct is the one detected during the implementation phase. 3. The most expensive defect to correct is the one detected during the requirements phase. 4. The cost of fixing either defect will usually be similar.	2.0
34	Effective software project management focuses on four P's which are	1. people, product, process, project 2. people, product, performance, process 3. people, performance, payoff, product 4. people, process, payoff, product	1.0
35	FAT file system is	1. Indexed Allocation and used in Windows OS 2. used in Windows OS 3. about storage in RAM 4. Indexed Allocation.	1.0
36	Files whose names end in .h are called _____ files	1. helper 2. header 3. handy 4. helping	2.0

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37	Finite automata recognizes --------grammars	1. type-1 2. type-3 3. type-0 4. type-2	2.0
38	Floating point representation is used to store _____.	1. Boolean values 2. real integers 3. integers 4. whole numbers	2.0
39	Function templates can accept	1. Only parameters of the basic type 2. Only one parameter 3. Any type of parameters 4. Only parameters of the derived type	1.0
40	Functional requirements of a system is modelled using	1. Use-case Diagram 2. Sequence Diagram 3. Class Diagram 4. Package Diagram	1.0
41	Given an arbitrary non-deterministic finite automaton (NFA). with N states, the maximum number of states in an equivalent minimized DFA is at least.	1. N^2 2. 2N 3. 2^N 4. N!	3.0
42	Given the language L = {ab, aa, baa}, which of the following strings are in L*? **1) abaabaaabaa** **2) aaaabaaaa** **3) baaaaabaaaab** **4) baaaaabaa**	1. 1, 2 and 3 2. 2, 3 and 4 3. 1, 2 and 4 4. 1, 3 and 4	3.0
43	Having more than one constructor in a class is	1. not possible 2. compile time polymorphism 3. constructor overriding 4. error	3.0
44	How many DFAs exit with two state over the input alphabet (a,b)	1. 16 2. 26 3. 32 4. 64	4.0
45	How many possible outputs would a decoder have with a 6-bit binary input?	1. 16 2. 64 3. 128 4. 32	2.0

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46	How many select lines would be required for an 8-line-to-1-line multiplexer?	1. 2 2. 4 3. 3 4. 8	3.0
47	How many stages are there in process improvement?	1. three 2. four 3. five 4. six	4.0
48	How many two state FA can be drawn over alphabet{0,1} which accepts(0+1)*	1. 12 2. 14 3. 20 4. 15	3.0
49	How will you free the allocated memory ?	1. delete(var-name); 2. dalloc(var-name); 3. free(var-name); 4. remove(var-name);	3.0
50	Identify the invalid statement from the following	1. for (; ;) 2. if (1) 3. break(0) 4. while(false)	3.0
51	If a register containing binary data (11001100) is subjected to arithmetic shift left operation, then the content of the register after 'ashl' shall be	1. (10011000) 2. (11001100) 3. (1101100) 4. (10011001)	1.0
52	If a university sets up web-based information system that faculty could access to record student grades and to advise students, that would be an example of an	1. intranet 2. ERP 3. extranet 4. CRM	1.0
53	If M1 machine recognizing L with n states, then M2 recognizing L* constructed Using Thompson construction will have ---------- states.	1. n+2 2. n+1 3. n 4. n-1	2.0
54	If M1 machine recognizing L with n states, then M2 recognizing L* constructed Using Thompson construction will have ---------- states.	1. n+2 2. n+1 3. n 4. n-1	2.0
55	If there is a complete DFA M1 recognizing a language L1 and has m states out of which two are final states then the machine M recognizing L1 complement will have _____ final states.	1. m+2 2. m 3. m-2 4. 2	1.0

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56	If X is the name of the class, what is the correct way to declare copy constructor of X?	1. X(class X* arg) 2. X(X& arg) 3. X(X* arg) 4. X(X arg)	2.0
57	If you assign a default value to any variable in a function prototype's parameter list, then _____	1. all parameters to the left of that variable must have default values 2. all parameters to the right of that variable must have default values 3. all other parameters in the function prototype must have default values 4. no other parameters in that prototype can have default values	2.0
58	If you want to use a class to define objects in many different programs, you should define the class in a C++ _____ file	1. text 2. source 3. header 4. program	3.0
59	In a BCD-to-seven-segment converter, why must a code converter be utilized?	1. to convert the 4-bit BCD into Gray code 2. to convert the 4-bit BCD into 7-bit code 3. to convert the 4-bit BCD into 10-bit code 4. No conversion is necessary	2.0
60	In C++, dynamic memory allocation is accomplished with the operator ____	1. new 2. this 3. malloc 4. delete	1.0
61	In C++, dynamic memory allocation is achieved with the operator _____	1. malloc() 2. delete 3. new 4. this	3.0
62	In CMM, the life cycle activities of requirements analysis, design, code, and test are described in	1. Software Product Engineering 2. Software Quality Assurance 3. Software Subcontract Management 4. Software Quality Management	1.0
63	In computers, subtraction is generally carried out by _____.	1. 9's complement 2. 2's complement 3. 10's complement 4. 1's complement	2.0
64	In the types of Three-Address statements, copy statements of the form x := y means	1. The value of x is assigned to y or the value of y is assigned t o x. 2. The value of x is assigned to y and the value of y is assigned t o x. 3. The value of y is assigned to x. 4. The value of x is assigned to y.	3.0
65	Many programmers separate a class into two files: _____	1. one for the primary functions and one for the auxiliary functions 2. one for the public data and one for the private data 3. one for the void functions and one for the other functions 4. one for the declarations and one for the implementations	4.0
66	Multiplication of a positive integer by a power of two can be replaced by left shift, which executes faster on most machines. This is an example of	1. Useless Code 2. Strength Reduction 3. Induction Variable 4. Loop unwinding	2.0

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67	One can safely state that the output lines for a demultiplexer are under the direct control of the:	1. input data select lines 2. the internal OR gate 3. the internal AND gates 4. Input data line	1.0
68	Overloading a prefix increment operator by means of a member function takes	1. Three arguments 2. Two arguments 3. No argument 4. One argument	3.0
69	Overloading involves writing two or more functions with _____	1. different names and different argument lists 2. different names and the same argument list 3. the same name and the same argument list 4. the same name and different argument lists	4.0
70	Specify the 2 library functions to dynamically allocate memory?	1. malloc() and calloc() 2. malloc() and memalloc() 3. alloc() and memalloc() 4. memalloc() and faralloc()	1.0
71	State the acronym of POMA in software project management	1. Project Organization Monitoring Adopting 2. Planning Origanizing Monitoring Adjusting 3. project oriented maintenance and administration 4. Project Orientation Mapping Adjusting	2.0
72	Templates improve	1. inheritance 2. reusability 3. class 4. functions	2.0
73	The Epsilon-Closure of any state q will contain the state _____ irrespective of q.	1. p 2. Epsilon 3. q 4. Final State	3.0
74	The binary value for 0.4375 is	1. 0.1111 2. 0.0111 3. 0.0011 4. 0.1010	2.0
75	The call to the parameterized constructor of base class in the derived class	1. appears inside the definition of the derived class 2. ppears inside the definition of the derived class constructor 3. appears at the statement where the derived class object is created 4. appears in the member initialization list of the derived class constructor	2.0
76	The fundamental notions of software engineering does not account for ?	1. Software reuse 2. Software Security 3. Software Validation 4. Software processes	3.0

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77	The language is L={$0^p 1^q 0^r$ | p,q,r ³ 0 , p ¹ r} is	1. Context-sensitive but not context-free 2. Recursive but not Context-free 3. Regular 4. Context-free	4.0
78	The library function used to find the last occurrence of a character in a string is	1. strnstr() 2. strrchr() 3. laststr() 4. strstr()	2.0
79	The major source of data for other systems are:	1. **Electronic Switching System** 2. Transaction Processing Systems 3. Decision Support System 4. Management Information System	2.0
80	The members of a class in c++ by default, are	1. private 2. protected 3. public 4. mandatory to specify	1.0
81	The minimum length for strings in the regular expression (10* + 001*)* is _____	1. Infinite 2. One 3. Zero 4. Two	3.0
82	The negative numbers in the binary system can be represented by	1. 10's Complement 2. 2's complement 3. Sign magnitude 4. I's complement	2.0
83	The number of full and half-adders required to add 16-bit numbers is	1. 8 half-adders, 8 full-adders 2. 1 half-adders, 15 full-adders 3. 16 half-adders, 0 full-adders 4. 4 half-adders, 12 full-adders	2.0
84	The number of states in a machine M recognizing L1UL2 will be _____ where n is the number of states in M1 and m is the number of states in M2 .	1. m-n 2. m+n 3. m+n+1 4. n-m	2.0

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85	The number of states in a machine M recognizing L1UL2 will be _____ where n is the number of states in M1 and m is the number of states in M2 .	1. m-n 2. m+n 3. m+n+1 4. n-m	2.0
86	The number of states in DFA is -------- the number of states in NFA for the same Language.	1. Greater then 2. equal to 3. less then 4. greater then or equal to	3.0
87	The processor 80386/80486 and the Pentium processor uses _____ bits address bus:	1. 36 2. 32 3. 16 4. 64	2.0
88	The set of all strings over the alphabet {a,b} (including epsilon} is denoted by	1. (a+b)^+ 2. a^+b^+ 3. a*b* 4. (a+b)*	4.0
89	The set of fundamental assumptions about what products the organization should produce, how and where it should produce them, and for whom they should be produced is	1. organizational culture. 2. behavioral model. 3. rational model. 4. agency theory.	1.0
90	The set of fundamental assumptions about what products the organization should produce, how and where it should produce them, and for whom they should be produced is	1. organizational culture. 2. behavioral model. 3. rational model. 4. agency theory.	1.0
91	The special memory used to store the micro routines of a computer is _____.	1. Control table 2. Control store 3. Control mart 4. Control shop	2.0
92	The system having memory elements are called.	1. sequential circuits 2. complex circuits 3. combinational circuits 4. logic circuits	1.0

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93	The term m45 should be made up of at least _____ literals.	1. 6 2. 31 3. 4 4. 5	2.0
94	The three key levels at which responsibility can be defined is at the ____,_____,____	1. Team, Organization, contractor 2. Project, Strategic, Activity 3. Project, Activity, WBS 4. Project, Organization, Team	4.0
95	The while loop is referred to as a(n) _____ loop because the loop condition is tested at the beginning of the loop	1. priming 2. pretest 3. initial 4. beginning	2.0
96	The word case used in the switch statement represents a	1. global variable in the C++ language 2. function in the C++ language 3. keyword in the C++ language 4. data type in the C++ language	3.0
97	Two access specifiers in C++ are	1. void and free 2. public and private 3. int and double 4. formal and informal	2.0
98	Usecase analysis focuses upon	1. Actors 2. Objects 3. Data 4. Entities	1.0
99	Variables inside parenthesis of functions declarations have _____ level access.	1. Local 2. Global 3. Module 4. Universal	1.0
100	Virtual memory is _____	1. A type of memory used in super computers 2. An illusion of extremely large main memory 3. An extremely large main memory 4. An extremely large secondary memory	2.0
101	WE RECEIVED “404 – PAGE NOT FOUND” MESSAGE, WHEN WE BROWSE THE WEB PAGE. WHICH PROTOCOL PROVIDES THIS MESSAGE?	1. IGP 2. EGP 3. SNMP 4. ICMP	4.0

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102	What are the minimum number of 2-to-1 multiplexers required to generate a 2- input AND gate and a 2-input Ex-OR gate?	1. 1 and 2 2. 1 and 3 3. 1 and 1 4. 2 and 2	1.0
103	What does the following declaration mean? int (*ptr)[10];	1. ptr is array of pointers to 10 integers 2. ptr is a pointer to an array of 10 integers 3. ptr is an array of 10 integers 4. ptr is an pointer to array	2.0
104	What is an Accumulator?	1. A Flip flop 2. A counter 3. A Sequential Logic Circuit 4. A Combinational Logic Circuit	3.0
105	What is an ALU?	1. A Combinational Logic Circuit 2. A Sequential Logic Circuit 3. A Combination of Combinational Circuit and Sequential Circuit 4. A flip flop	2,3
106	What is the condition for setting the Overflow flag in status register?	1. Last two sum bits are different 2. Last two carrys are same 3. Last two sum bits are same 4. Last two carrys are different	3.0
107	What is the maximum number of reduce moves that can be taken by a bottom-up parser for a	1. n/2 2. n-1 3. 2n-1 4. 2^n	2.0
108	What is the recommended distribution of effort for a software project?	1. 50-20-30 2. 50-30-20 3. 30-40-30 4. 40-20-40	4.0
109	What is the return type of the conversion operator function?	1. no return type 2. int 3. void 4. float	1.0
110	What is the status of the inputs S0, S1, and S2 of the 74151 eight-line multiplexer in order for the output Y to be a copy of input I5?	1. S0 = 1, S1 = 0, S2 = 1 2. S0 = 1, S1 = 1, S2 = 0 3. S0 = 0, S1 = 1, S2 = 0 4. S0 = 0, S1 = 0, S2 = 1	1.0
111	What is true about constant member function of a class?	1. cannot access any of its class data members 2. cannot modify values of its class data members 3. cannot modify values of its class data members which are mutable 4. can modify values of its class data members	2.0

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112	What will be the output of the following code #include void main() { int i; int a[3]=5; for (i=2;i>=0;i--) { printf(?%d\n?,a[i]); } }	1. 0 0 5 2. 5 0 0 3. 5 garbage garbage 4. 5 null null	3.0
113	When an instruction is read from the memory, it is called	1. Memory Read cycle 2. Fetch cycle 3. Instruction cycle 4. Memory write cycle	3.0
114	When FA M is given which recognizes language L and reverse of L is found by using M then there can be _____Final states	1. Two 2. Three 3. Only one 4. Any number	3.0
115	When there is complete DFA with Five states out of which two are final states if F is modified such that it recognizes complement of the original language then there will be at least _____final states.	1. 3 2. 2 3. 5 4. 7	3.0
116	When there is more than one final state in the reduced FA, then its regular expression will contain _____ operator surely	1. dot 2. binary + 3. star 4. unary +	4.0
117	When we concatenate two languages L1 and L2 recognized by machine M1 and M2 we obtain a machine with final state same as that of _____	1. M1 OR M2 2. M1 AND M2 3. M2 4. M1	2.0
118	Which directory implementation is used in most Operating System?	1. Two level directory structure 2. Acyclic directory structure 3. Single level directory structure 4. Tree directory structure	4.0
119	Which is not a proper prototype?	1. double funct(char x) 2. void funct(); 3. char x(); 4. intfunct(char x, char y);	1.0
120	WHICH OF THE BELOW IS CALLED CLASSLESS ADDRESS?	1. 191.168.1.1/24 2. 191.168.1.1/16 3. 191.168.1.1/8 4. 191.168.1.1/4	2.0

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121	WHICH OF THE BELOW IS NOT AN EMAIL PROTOCOL?	1. SMTPMP 2. IMAP 3. POP 4. SNMP	4.0
122	Which of the following calls a function named displayName, passing it no actual arguments?	1. call displayName 2. call displayName () 3. displayName 4. displayName()	4.0
123	Which of the following conversion is not possible (algorithmically)?	1. nondeterministic PDA to deterministic PDA 2. nondeterministic FSA to deterministic FSA 3. regular grammar to context-free grammar 4. nondeterministic TM to deterministic TM	1.0
124	Which of the following derivations does a top-down parser use while parsing an input string? The input is assumed to be scanned in left to right order.	1. Leftmost derivation 2. Leftmost derivation traced out in reverse 3. Rightmost derivation 4. Rightmost derivation traced out in reverse	1.0
125	Which of the following functions compares two strings?	1. compare(); 2. cmp(); 3. stringcompare(); 4. strcmp();	4.0
126	Which of the following gives the memory address of a variable pointed to by pointer a?	1. a; 2. *a; 3. &a; 4. address(a);	3.0
127	which of the following intermediate language can be used in intermediate code generation?	1. Quadraples 2. Postfix notation and Three address code 3. Triples 4. Infix notation and two address code	1,3,2
128	Which of the following is a complete function?	1. void funct(int) { printf(?Hello"); } 2. int funct(); 3. void funct(x) { printf(?Hello"); } 4. int funct(int x) { return x=x+1; }	4.0
129	Which of the following is a valid destructor of the class name "Country"	1. void ~Country() 2. int ~Country(Country obj) 3. int ~Country() 4. Country()	4.0
130	which of the following is an incorrect definition inside a class ?	1. void * operator new () { } 2. int operator ++() { } 3. void operator delete(void * ptr) { } 4. void * operator new(size_t size) { }	2.0

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131	Which of the following is correct for a gated *D* flip-flop?	1. The output toggles if one of the inputs is held HIGH. 2. Only one of the inputs can be HIGH at a time. 3. The output complement follows the input when enabled. 4. *Q* output follows the input *D* when the enable is HIGH.	4.0
132	Which of the following is not a technology driver for an information system?	1. Collaborative technologies 2. Knowledge asset management 3. Enterprise applications 4. Object technologies	2.0
133	Which of the following is not a type of constructor?	1. Copy Constructor 2. Friend Constructor 3. Default Constructor 4. Parametrized Constructor	2.0
134	Which of the following is the insertion operator?	1. /* 2. // 3. << 4. >>	4.0
135	Which of the following is/are main parameters that you should use when computing the costs of a software development project?	1. Hardware and software costs 2. Effort costs (the costs of paying software engineers and managers) 3. Travel and training costs 4. All the parameters required given in the option.	4.0
136	Which of the following language feature is not an access specifier in C++?	1. internal 2. protected 3. public 4. private	1.0
137	Which of the following regular expression denotes a language comprising of all possible strings over {a,b} of length n where n is a multiple of 3?	1. (aaa+ab+a)+(bbb+bb+a) 2. ((a+b) (a+b) (a+b))* 3. (aaa+bbb)* 4. (a+b+aa+bb+aba+bba)*	2.0
138	Which of the following regular expression identities are true?	1. r* s* = r* + s* 2. (r + s)* = (r*s*)* 3. (r + s)* = r* + s* 4. (r + s)* = r* s*	2.0
139	Which of the following results in a compile-time error?	1. int f2() { static int i; i++; return i; } 2. int f3(static int i) { return 300;} 3. static int f1() { return 100; } 4. static int a;	3.0

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140	Which of the following scheduling algorithm comes under preemptive scheduling?	1. FCFS 2. Round Robin 3. Multilevel Queue Scheduling 4. Largest Job First	2.0
141	Which of the following special symbol is allowed in a variable name?	1. _ (underscore) 2. - (hyphen) 3. | (pipeline) 4. * (asterisk)	1.0
142	Which of the following statement is false?	1. For *R = R1**, *L(R)* is empty if and only if *L(R1)* is empty 2. For *R* = (*R1*), *L(R)* is empty if and only if *L*(*R1*) is empty 3. For *R = R1R2* , *L(R)* is empty if and only if either L(*R1*) or L(*R2*) is empty. 4. If *R = R1+ R2* , *L(R)* is empty if and only if both L(*R1*) and L(*R2*) are empty.	1.0
143	Which of the following statement is false?	1. If there is a PDA by acceptance state that accept L, then there is also a PDA by empty stack that accept L 2. If there is a NPDA that accept L, then there is also a DPDA that accept L. 3. If there is a PDA by empty stack, then there is also a CFG G that accept L. 4. If there is a CFG G that accepts L, then there is also a PDA that accept L.	
144	Which of the following statements is/are **FALSE**?	1. Turing recognizable languages are closed under union and complementation. 2. Turing decidable languages are closed under intersection and complementation 3. Turing recognizable languages are closed under union and intersection. 4. For every non-deterministic Turing machine, there exists an equivalent deterministic Turing machine.	
145	Which of the following suffices to convert an arbitrary CFG to an LL(1) grammar?	1. Removing left recursion alone 2. Factoring the grammar alone 3. Removing left recursion and factoring the grammar 4. Removing left recursion, left factoring and ambiguity of the grammar	4.0
146	Which of the following ways are legal to access a class data member using this pointer?	1. this.x 2. *this.x 3. this->x 4. *this-x	3.0
147	Which one of the following is a top-down parser?	1. An LR(k) parser. 2. An LALR(k) parser 3. Operator precedence parser. 4. Recursive descent parser.	4.0

S.NO.	Questions	Choices	Answers
148	Which one of the following is a valid project Key Performance Indicator (KPI)?	1. Master schedule. 2. Staff appraisals. 3. Management buy in. 4. Milestone achievement.	4.0
149	Which one of the following is the correct way to declare a pure virtual function?	1. virtual void Display(void){0}; 2. void Display(void) = 0; 3. virtual void Display(void) = 0; 4. virtual void Display = 0;	3.0
150	Which one of the following languages over alphabet {0,1} is described by the regular expression: (0+1)*0(0+1)*0(0+1)*?	1. The set of all strings containing at least two 0's 2. The set of all strings that begin and end with either 0 or 1. 3. The set of all strings containing at most two 0's. 4. The set of all strings containing the substring 00.	1.0
151	Which one of the following models is not suitable for accommodating any change?	1. Build & Fix Model 2. RAD Model 3. Waterfall Model 4. Prototyping Model	3.0
152	Which one of the following regular expressions over {0,1} denotes the set of all strings not containing 100 as a substring?	1. 0*(11*0)* 2. 0*1*01 3. 0*(10+1)* 4. 0*1010*	1234.0
153	Which one of the following statements best defines the purpose of a Product Breakdown Structure (PBS)?	1. To identify the health and safety strategies and procedures to be used on the project 2. To establish the extent of work required prior to project commissioning and the handover 3. To define how the products are produced by identifying derivations and dependencies 4. To define the hierarchy of deliverables that are required to be produced on the project	4.0
154	Who owns the Project Management Plan (PMP)?	1. The project team. 2. The chief executive. 3. The project manager. 4. The project support office.	3.0
155	Write the regular expression to denote the language L over ? ={ a,b} such that all the string do not contain the substring " ab".	1. a*b* 2. b*a* 3. (ab)* 4. (ba)*	24.0
156	Zero address instruction format is used for	1. Von-Neuman architecture 2. RISC architecture 3. CISC architecture 4. Stack-organized architecture	4.0

S.NO.	Questions	Choices	Answers
157	In a slab under steady state conduction if the thermal conductivity increases along the thickness, the temperature gradient along the direction will become	1. Steeper 2. Flatter 3. Constant 4. mixed pattern	3.0
158	The temperature of a gas stream is to be measured by a thermocouple whose junction can be approximated as 1-mm-dia sphere. The properties of the junction are k = 35 W/m °C, ρ = 8500 kg/m^3, and C_p = 320 J/kg °C, and the convection heat transfer coefficient between the junction and the gas is h = 210 W/m^2 °C. The time taken by the thermocouple to read 99 percent of the initial temperature difference	1. 2 sec 2. 10 sec 3. 28 sec 4. 63 sec	3.0
159	Assuming flow to be laminar, if the diameter of the pipe is halved, then the pressure drop will	1. increase 2. decrease 3. remain same 4. be quadrupled	1.0
160	Dimension of absolute viscosity is	1. $ML^{-1}T^{-1}$ 2. MLT^{-1} 3. $ML^{-1}T$ 4. MLT	1.0
161	Which of the following is minimum error code?	1.Octal code 2.Grey code 3.Binary code 4. Excess 3 code	2.0
162	When used with an IC, what does the term "QUAD" indicate?	1. 4 circuits 2. 2 circuits 3. 8 circuits 4. 6 circuits	1.0

S.NO.	Questions	Choices	Answers
163	Adding 1001 and 0010 gives	1. 1011 2. 1111 3. 0 4. 1010	1.0
164	Radix of binary number system is _____?	1. 0 2. 1 3. 2 4. A&B	3.0
165	SR Flip flop can be converted to T-type flip-flop if ?	1. is connected to Q 2.R is connected to Q 3.Both S and R are shortend 4.S and R are connected to Q and Q' respectively	4.0
166	The main difference between JK and RS flip-flop is that?	1. JK flip-flop does not need a clock pulse 2. there is feedback in JK flip-flop 3. JK flip-flop accepts both inputs as 1 4. JK flip-flop is acronym of junction cathode multivibrator	3.0
167	Register is a ----------	1.Set of capacitor used to register input instructions in a digital computer 2.Set of paper tapes and cards put in a file 3. Temporary storage unit within the CPU having dedicated or general purpose use 4.Part of the auxiliary memory	3.0
168	Magnitude comparator compares using operation of	1. addition 2. subtraction 3. multiplication 4. division	xnor1

S.NO.	Questions	Choices	Answers
169	An SR flip flop cannot accept the following input entry	1. Both input zero 2. zero at R and one at S 3. zero at S and one at R 4. Both inputs one	4.0
170	One operation that is not given by magnitude comparator	1. equal 2. less 3. greater 4. addition	2.0
171	Automaton accepting the regular expression of any number of a ' s is:	1. a* 2. a 3. a*b* 4. abc	1.0
172	Let L be a set accepted by a nondeterministic finite automaton. The number of states in non-deterministic finite automaton is |Q|. The maximum number of states in equivalent finite automaton that accepts L is	1. |Q| 2. 2|Q| 3. 2 raise to power |Q|*1 4. 2 raise to power |Q|	4.0
173	Number of final state require to accept Φ(phi) in minimal finite automata.	1. 4 2. 3 3. 1 4. 0	4.0

S.NO.	Questions	Choices	Answers
174	The embedded c program is converted by cross compiler to	1. the machine code corresponding to the processor of the PC used for application development 2. the machine code corresponding to a processor which is different from the processor of the PC used for application development 3. the machine code for all the microcontrollers 4. assemble code of the PC used for application development	2.0
175	The regular expression 0*(10*)* denotes the same set as	1. (1*0)*1* 2. 0 + (0 + 10)* 3. (0 + 1)* 10(0 + 1)* 4. (0+1)*	1.0
176	Which of the following statements is/are FALSE? (1) For every non-deterministic Turing machine, there exists an equivalent deterministic Turing machine. (2) Turing recognizable languages are closed under union and complementation. (3) Turing decidable languages are closed under intersection and complementation (4) Turing recognizable languages are closed under union and intersection.	1. 1 and 4 only 2. 1 and 3 only 3. 2 only 4. 3 only	3.0
177	Two automata are equal when	1. both are under union 2. both are under same language 3. both are having equal number of states 4. both are having same number of final states	2.0

S.NO.	Questions	Choices	Answers
178	What is the minimum number of states needed to a DFA over Σ= (a, b) which accept those words from Σ such that the number of a is even and the number of b is divisible by three.	1. 2 states 2. 4 states 3. 6 states 4. 5 states	3.0
179	***If a language is denoted by a regular expression*** ***L = (x)* (x | y x) ,*** ***then which of the following is not a legal string within L ?***	1. yx 2. xyx 3. x 4. x y x y x	4.0
180	**The CFG** **s---> as | bs| a | b** **is equivalent to regular expression**	1. (a + b) 2. (a + b) (a + b)* 3. (a + b) (a + b) 4. (a + b) (a + b)(a + b) (a + b)	2.0
181	----------is used to check whether the language is not regular.	1. Pumping Lemma 2. RE 3. MN Theorem 4. Pigeon hole principle	1.0
182	The minimum number of page frames that must be allocated to a running process in a virtual memory environment is determined by	1. the instruction set architecture 2. page size 3. physical memory size 4. number of processes in memory	1.0

S.NO.	Questions	Choices	Answers
183	A computer has a 256 KByte, 4-way set associative, write back data cache with block size of 32 Bytes. The processor sends 32 bit addresses to the cache controller. Each cache tag directory entry contains, in addition to address tag, 2 valid bits, 1 modified bit and 1 replacement bit. The size of the cache tag directory is	1. 11 2. 14 3. 27 4. 16	4.0
184	Pre-emptive scheduling is the strategy of temporarily suspending a running process	1. before the CPU time slice expires 2. to allow starving processes to run 3. when it requests IO 4. None of mentioned	1.0
185	Multiprogramming systems _____	1. Are easier to develop than single programming systems 2. Execute each job faster 3. Execute more jobs in the same time 4. Are used only on large main frame computers	3.0
186	The DMA controller has _____ registers	1. 4 2. 2 3. 3 4. 1	3.0
187	The truth table X Y f(X,Y) 0 0 0 0 1 0 1 0 1 1 1 1 represents the Boolean function	1. X 2. X+Y 3. X'Y' 4. Y	1.0

S.NO.	Questions	Choices	Answers
188	**Which of the following regular expression denotes a language comprising of all possible strings over ∑= {a,b} of length n where n is a multiple of 3?**	1. **(a+b+aa+bb+aba+bba)*** 2. **(aaa+bbb)*** 3. **((a+b) (a+b) (a+b))*** 4. **(aaa+ab+a)+(bbb+bb+a)**	3.0
189	**Which of the following statement is true?**	1.**NFA is more powerful than DFA** 2.**DFA is more powerful than NFA** 3. **NFA and DFA have equal power** 4.None	3.0
190	Assume that a mergesort algorithm in the worst case takes 30 seconds for an input of size 64. Which of the following most closely approximates the maximum input size of a problem that can be solved in 6 minutes?	1.256 2.2048 3.1024 4.512	4.0
191	ElGamal encryption system is:	1. symmetric key encryption algorithm 2. asymmetric key encryption algorithm 3. not an encryption algorithm 4. none of the mentioned	2.0
192	#include < stdio.h > int main() { typedef auto int AI; AI var=100; printf("var=%d",var); return 0; } Find the output	1. var=100 2. var=AI 3. var=0 4. Error	4.0
193	#include < stdio.h > int main() { typedef char* string; string myName="ABCDEFG"; printf("myName=%s (size=%d)",myName,sizeof(myName)); return 0; } Find the output	1. myName=ABCDEFG(size=7) 2. Error 3. myName=ABCDEFG(size=4) 4. myName=ABCDEFG(size=8)	4.0
194	#include < stdio.h > int main() { typedef int AAA,BBB,CCC,DDD; AAA aaa=10; BBB bbb=20; CCC ccc=30; DDD ddd=40; printf("%d,%d,%d,%d",aaa,bbb,ccc,ddd); return 0; } Find the output	1. Error 2. 10,10,10,10 3. 10,20,30,40 4. AAA,BBB,CCC,DDD	3.0

S.NO.	Questions	Choices	Answers
195	#include < stdio.h > int main() { typedef struct { int empid; int bsal; }EMP; EMP E={10012,15100}; printf("%d,%d",E.empid,E.bsal); return 0; } Find the output	1. 10012,12100 2. 0,0 3. Error 4. 10012,10012	1.0
196	#include < stdio.h > void main() { unsigned char var=0; for(var=0;var<=255;var++); { printf("%d ",var); } } Find the output	1. 0 1 2 ... 255 2. 255 3. 256 4. blank screen as output	1.0
197	#include <stdio.h> #define MOBILE 0x01 #define LAPPY 0x02 int main() { unsigned char item=0x00; item |=MOBILE; item |=LAPPY; printf("I have purchased ...:"); if(item & MOBILE){ printf("Mobile, "); } if(item & LAPPY){ printf("Lappy"); } return 1; }	1. I have purchased ...: 2. I have purchased ...:Mobile, Lappy 3. I have purchased ...:Mobile, 4. I have purchased ...:Lappy	2.0
198	#include <stdio.h> int main() { char flag=0x0f; flag &= ~0x02; printf("%d",flag); return 0; } Predict the Output.	1. 13 2. d 3. 22 4. 10	1.0
199	#include <stdio.h> int main() { int a=10; int b=2; int c; c=(a & b); printf("c= %d",c); return 0; } Find the output.	1. c = 12 2. c = 10 3. c = 2 4. c = 0	3.0

S.NO.	Questions	Choices	Answers
200	#include <stdio.h> #define FUN(x,y) x##y int main() { int a1=10,a2=20; printf("%d...%d",FUN(a,1),FUN(a,2)); return 0; } Find the output	1. Error 2. 10...10 3. 20...20 4. 10...20	4.0
201	#include <stdio.h> #define LARGEST(x,y) (x>=y)?x:y int main() { int a=10,b=20,l=0; l=LARGEST(a++,b++); printf("a=%d,b=%d,largest=%d",a,b,l); return 0; } Find the output	1. a=10,b=20,largest=20 2. a=11,b=21,largest=20 3. a=11,b=21,largest=21 4. a=11,b=22,largest=21	4.0
202	#include <stdio.h> #define MAX 100 int main() { #define MAX 20 printf("MAX=%d...",MAX); return 0; } Find the output	1. Error 2. MAx=100... 3. MAx=20... 4. MAX=10020	3.0
203	#include <stdio.h> #define MAX 10 int main() { int array[MAX]={1,2,3},tally; for(tally=0;tally< sizeof(array)/sizeof(int);tally+=1) printf("%d ",*(tally+array)); return 0; } Find the output	1. Error 2. 1 3 4 5 6 7 8 9 10 11 3. 1 2 3 0 0 0 0 0 0 0 4. 0 0 0 0 0 0 0 0 0 0	3.0
204	#include <stdio.h> #define MAX 99 int main() { printf("%d...",MAX); #undef MAX printf("%d",MAX); return 0; } Find the output	1. 99...0 2. 99...99 3. Error 4. MAX...MAX	3.0
205	#include <stdio.h> #define TEXT IncludeHelp int main() { printf("%s",TEXT); return 0; } Find the output	1. IncludeHelp 2. TEXT 3. Error 4. TEXT IncludeHelp	3.0

S.NO.	Questions	Choices	Answers
206	#include <stdio.h> #define TRUE 1 int main() { if(TRUE) printf("1"); printf("2"); else printf("3"); printf("4"); return 0; } Find the output.	1. 1 2. Error 3. 2 4. 12	2.0
207	#include <stdio.h> #define TRUE 1 int main() { int loop=10; while(printf("Hello ") && loop--); } Find the output	1. Hello 2. Hello Hello Hello Hello ... (infinite times) 3. Hello (10 times) 4. Hello (11 times)	4.0
208	#include <stdio.h> #define VAR1 VAR2+10 #define VAR2 VAR1+20 int main() { printf("%d",VAR1); return 0; } Find the output	1. VAR2+10 2. VAR1+20 3. Error 4. 10	3.0
209	#include <stdio.h> #include < string.h > struct student { char name[20]; }std; char * fun(struct student *tempStd) { strcpy(tempStd->name,"Thomas"); return tempStd->name; } int main() { strcpy(std.name,"Mike "); printf("%s%s",std.name,fun(&std)); return 0; } Find the output	1. Mike Thomas 2. Mike Mike 3. ThomasThomas 4. ThomasMike	3.0
210	#include <stdio.h> #include <string.h> int main() { char s1[]="IncludeHelp"; char s2[10]; strncpy(s2,s1,5); printf("%s",s2); return 0; } Find the output	1. Inclu 2. IncluGARBAGE_VALUE 3. Error 4. IncludeHelp	1.0

S.NO.	Questions	Choices	Answers
211	#include <stdio.h> #include <string.h> int main() { char str1[]="IncludeHelp",str2[]=".Com"; printf("%s",str1+strlen(str2)); return 0; } Find the output	1. IncludeHelp.Com 2. udeHelp 3. Error 4. IncludeHelp4	2.0
212	#include <stdio.h> #include <string.h> int main() { char str[50]="IncludeHelp"; printf("%d...%d",strlen(str),sizeof(str)); return 0; } Find the output	1. 50...5011...50 2. 11...50 3. 11...11 4. 50...11	2.0
213	#include <stdio.h> #include <string.h> int main() { int val=0; char str[]="IncludeHelp.Com"; val=strcmp(str,"includehelp.com"); printf("%d",val); return 0; } Find the output	1. 0 2. 1 3. -1 4. Error	3.0
214	#include <stdio.h> #define OFF 0 #if debug == OFF int a=11; #endif int main() { int b=22; printf("%d...%d",a,b); return 0; } Find the output	1. 11...22 2. Error 3. 11...11 4. 22...22	1.0
215	#include <stdio.h> int main() { char *text="Hi Babs."; char x=(char)(text+3); printf("%c\n",x); return 0; } Find the output	1. Garbage 2. B 3. Error 4. Null	4.0
216	#include <stdio.h> int main() { char *text="Hi Babs."; char x=(char)(text[3]); printf("%c\n",x); return 0; } Find the output	1. Garbage 2. B 3. Error 4. Null	2.0

S.NO.	Questions	Choices	Answers
217	#include <stdio.h> int main() { int anyVar=10; printf("%d",10); return 0; } extern int anyVar; Find the output	1. Complie time error 2. 10 3. Run Time error 4. No output	2.0
218	#include <stdio.h> int main() { int x=2.3; const char c1=(float)x; const char c2=(int)x; printf("%d,%d\n",c1,c2); return 0; } Find the output	1. Error 2. 2.3,2 3. 2.3000000,2 4. 2,2	2.0
219	#include <stdio.h> struct sample { int a; }sample; int main() { sample.a=100; printf("%d",sample.a); return 0; } Find the output	1. 0 2. 100 3. ERROR 4. arning	2.0
220	#include <stdio.h> char* fun1(void) { char str[]="Hello"; return str; } char* fun2(void) { char *str="Hello"; return str; } int main() { printf("%s,%s",fun1(),fun2()); return 0; } Find the output	1. ERROR 2. Hello,Hello 3. Hello,Garbage 4. Garbage,Hello	4.0
221	#include <stdio.h> char* strFun(void) { char *str="IncludeHelp"; return str; } int main() { char *x; x=strFun(); printf("str value = %s",x); return 0; } Find the output	1. str value= Garbage value 2. str value = IncludeHelp 3. Error 4. No output	2.0

S.NO.	Questions	Choices	Answers
222	#include <stdio.h> int fooo(void) { static int num=0; num++; return num; } int main() { int val; val=fooo(); printf("step1: %d\n",val); val=fooo(); printf("step2: %d\n",val); val=fooo(); printf("step3: %d\n",val); return 0; } Find the output	1. step1: 1 step2: 1 step3: 1 2. step1: 1 step2: 2 step3: 3 3. step1: 0 step2: 0 step3: 0 4. ERROR	2.0
223	#include <stdio.h> int main() { #ifdef debug printf("Start debugging..."); #endif printf("IncludeHelp"); return 0; } Find the output	1. Start debugging...IncludeHelp 2. IncludeHelp 3. Error 4. debug	2.0
224	#include <stdio.h> int main() { int a[5]={0x00,0x01,0x02,0x03,0x04},i; i=4; while(a[i]) { printf("%02d ",*a+i); --i; } return 0; } Find the output	1. 00 01 02 03 04 2. 04 03 02 01 00 3. 04 03 02 01 4. 01 02 03 04	3.0
225	#include <stdio.h> int main() { int a[5]={1,2,3,4,5},b[5]={10,20,30,40,50},tally; for(tally=0;tally< 5;++tally) *(a+tally)=*(tally+a)+ *(b+tally); for(tally=0;tally< 5;tally++) printf("%d ",*(a+tally)); return 0; } Find the output	1. 1 2 3 4 5 2. 10 20 30 40 50 3. 11 22 33 44 55 4. Error	3.0
226	#include <stdio.h> int main() { static int array[]={10,20,30,40,50}; printf("%d...%d",*array,*(array+3)* *array); return 0; } Find the output	1. Error 2. 10...40 3. 10...300 4. 10...400	4.0

S.NO.	Questions	Choices	Answers
227	#include <stdio.h> int main() { static int x[]={'A','B','C','D','E'},tally; for(tally=0;tally< sizeof(x)/sizeof(int) ; tally+=1) printf("%c,%c,%c\n",*(x+tally)+1,x[tally]+1,*(tally+x)+1); return 0; } Find the output	1. Error 2. A,A,A B,B,B C,C,C D,D,D E,E,E 3. B,B,B C,C,C D,D,D E,E,E F,F,F 4. E,E,E D,D,D C,C,C B,B,B A,A,A	3.0
228	#include <stdio.h> int main() { char result,str[]="\0IncludeHelp"; result=printf("%s",str); if(result) printf("TRUE"); else printf("FALSE"); return 0; } Find the output	1. \0IncludeHelpTRUE 2. \0IncludeHelpFALSE 3. Error 4. FALSE	4.0
229	#include <stdio.h> int main() { char str[8]="IncludeHelp"; printf("%s",str); return 0; } Find the output	1. IncludeHelp 2. IncludeH 3. Error 4. No output	3.0
230	#include <stdio.h> int main() { char str[]="Hello%s%dFriends"; printf(str); printf("\n"); printf("%s",str); return 0; } Find the output	1. HelloFriends HelloFriends 2. Hello%s%dFriends Hello%s%dFriends 3. Hello(null)0Friends Hello%s%dFriends 4. Garbage value	3.0

S.NO.	Questions	Choices	Answers
231	#include <stdio.h> int main() { char str[]="value is =%d"; int a='7'; str[11]='c'; printf(str,a); return 0; } Find the output	1. value is = %d 2. value is = %c 3. value is = 55 4. value is = 7	4.0
232	#include <stdio.h> int main() { char X[10]={'A'},i; for(i=0; i<10; i++) printf("%d ",X[i]); return 0; } Find the output	1. A 0 0 0 0 0 0 0 0 0 2. A 3. A 32 32 32 32 32 32 32 32 32 4. Error	4.0
233	#include <stdio.h> int main() { char *str="IncludeHelp"; printf("%c\n",*&*str); return 0; } Find the output	1. Error 2. IncludeHelp 3. I 4. *I	3.0
234	#include <stdio.h> int main(){ float a=125.50; int b=125.50; char c='A'; printf("%d,%d,%d\n",sizeof(a),sizeof(b),sizeof(125.50)); printf("%d,%d\n",sizeof(c),sizeof(65)); return 0; } What will be the output on a 32 bit compiler.	1. 4, 4, 4 1, 4 2. 4, 4, 8 1, 1 3. 4, 4, 4 1, 1 4. 4, 4, 8 1, 4	4.0
235	#include <stdio.h> int main() { if((-100 && 100)||(20 && -20)) printf("%s","Condition is true."); else printf("%s","Condition is false."); return 0; } Find the output	1. Condition is True 2. Condition is False 3. No output 4. Error	1.0

S.NO.	Questions	Choices	Answers
236	#include <stdio.h> int main() { int a=10; if(10L == a) printf("10L"); else if(10==a) printf("10"); else printf("0"); return 0; } Find the output.	1. 10 2. 10L 3. 10L10 4. Error	2.0
237	#include <stdio.h> int main() { int a=10; if(a==10) { printf("Hello..."); break; printf("Ok"); } else { printf("Hii"); } return 0; } Find the output.	1. Hello... 2. Hello...OK 3. OK... 4. Error	4.0
238	#include <stdio.h> int main() { int a=15; float b=1.234; printf("%*f",a,b); return 0; } Predict the output?	1. 1.234 2. 1.234000 3. 1.234000 4. Error	3.0
239	#include <stdio.h> int main() { int i; for(i=0; i< 5; i++) { if(i*i > 30) goto lbl; else printf("%d",i); lbl: printf("IHelp "); } return 0; } Find the output	1. 0IHelp 1IHelp 2IHelp 3IHelp 4IHelp 2. 0IHelp 1IHelp 2IHelp 4IHelp 3. 1IHelp 4. Error	1.0
240	#include <stdio.h> int main() { int MAX=10; int array[MAX]; printf("size of array is = %d",sizeof(array); return 0; } Find the output	1. size of array is = 20 2. size of array is = 40 3. size of array is = 4 4. Error	2.0

S.NO.	Questions	Choices	Answers
241	#include <stdio.h> int main() { int pn=100; if(pn>20) if(pn<20) printf("Heyyyyy"); else printf("Hiiiii"); return 0; } Find the output.	1. No output 2. Hiiiii 3. Heyyyyy 4. HeyyyyyHiiiii	2.0
242	#include <stdio.h> int main() { int var=100; { int var=200; printf("%d...",var); } printf("%d",var); return 0; } Find the output	1. ERROR 2. 200...200 3. 100...100 4. 200...100	4.0
243	#include <stdio.h> int main() { int var=250; printf("value of var = %d\n",var); 200+50; "includehelp.com"; printf("%s\n","includehelp"); return 0; } Find the output	1. value of var = 250 includehelp.com 2. value of var = 250 includehelp 3. Error 4. value of var = 250 Garbage	2.0
244	#include <stdio.h> int main() { int iVal; char cVal; void *ptr; // void pointer iVal=50; cVal=65; ptr=&iVal; printf("value =%d,size= %d\n",*(int*)ptr,sizeof(ptr)); ptr=&cVal; printf("value =%d,size= %d\n",*(char*)ptr,sizeof(ptr)); return 0; } Find the output	1. Error 2. value =50,size= 4 value =65,size= 4 3. value =50,size= 4 value =65,size= 1 4. Garbage value	2.0
245	#include <stdio.h> int main() { static int var[5]; int count=0; var[++count]=++count; for(count=0;count<5;count++) printf("%d ",var[count]); return 0; } Find the output	1. 0 1 0 0 0 2. 0 2 0 0 0 3. 0 0 2 0 0 4. 0 0 0 0 0	3.0

S.NO.	Questions	Choices	Answers
246	#include <stdio.h> int main() { struct sample{ int a; int b; sample *s; }t; printf("%d,%d",sizeof(sample),sizeof(t.s)); return 0; } Find the output	1. 12, 12 2. 12, 0 3. Error 4. 12, 4	4.0
247	#include <stdio.h> int main() { struct std { char name[30]; int age; }; struct std s1={"Mike",26}; struct std s2=s1; printf("Name: %s, Age: %d\n",s2.name,s2.age); } Find the output	1. Name: Mike, Age: 26 2. Name: Garbage, Age: Garbage 3. Name: Null, Age: 26 4. Error	1.0
248	#include <stdio.h> int main() { typedef struct tag{ char str[10]; int a; }har; har h1,h2={"IHelp",10}; h1=h2; h1.str[1]='h'; printf("%s,%d",h1.str,h1.a); return 0; } Find the output	1. ERROR 2. IHelp, 10 3. IHelp, 0 4. Ihelp, 10	4.0
249	#include <stdio.h> int main() { union test { int i; int j; }; union test var=10; printf("%d,%d\n",var.i,var.j); } Find the output	1. 10,10 2. 10,0 3. 0,10 4. Error	4.0
250	#include <stdio.h> int main() { union values { int intVal; char chrVal[2];i }; union values val; val.chrVal[0]='A'; val.chrVal[1]='B'; printf("\n%c,%c,%d",val.chrVal[0],val.chrVal[1],val.intVal); return 0; } Find the output	1. A,B,0 2. A,B,16961 3. B,B,66 4. A,A,65	2.0

S.NO.	Questions	Choices	Answers
251	#include <stdio.h> int main() { union values { unsigned char a; unsigned char b; unsigned int c; }; union values val; val.a=1; val.b=2; val.c=300; printf("%d,%d,%d",val.a,val.b,val.c); return 0; } Find the output	1. 44,44,300 2. 1,2,300 3. 2,2,300 4. 256,256,300	1.0
252	#include <stdio.h> int main() { void *ptr; ++ptr; printf("%u",ptr); return 0; } Find the output	1. 2004 2. 2001 3. 2000 4. ERROR	2.0
253	#include <stdio.h> struct employee{ int empId; char *name; int age; }; int main() { struct employee emp []={ {1,"Mike",24}, {2,"AAA",24}, {3,"BBB",25}, {4,"CCC",30} }; printf("Id : %d, Age : %d, Name : %s", emp[2].empId,3[emp].age,(*(emp+1)).name); return 0; } Find the output	1. Id: 3, Age: 24, Name: Mike 2. Id: 3, Age: 23, Name: Mike 3. Id: 3, Age: 30, Name: AAA 4. Error	3.0
254	#include <stdio.h> void main() { int a=2; switch(a) { printf("Message\n"); default: printf("Default\n"); case 2: printf("Case-2\n"); case 3: printf("Case-3\n"); } printf("Exit from switch\n"); } Find the output	1. Case-2 2. Message 3. Message Case-2 4. Case-2 Case-3 Exit from switch	4.0

S.NO.	Questions	Choices	Answers
255	#include <stdio.h> void main(){ static int staticVar; int j; for(j=0;j<=5;j+=2) switch(j){ case 1: staticVar++; break; case 2: staticVar+=2; case 4: staticVar%=2; j=-1; continue; default: --staticVar; continue; } printf("%d",staticVar); } Find the output	1. 0 2. 1 3. 2 4. Error	1.0
256	#include <stdio.h> void main(){ int a=0; a=5||2|1; printf("%d",a); } Find the output.	1. 2 2. 1 3. 0 4. 8	2.0
257	#include <stdio.h> void main(){ int a=1; switch(a/2) { case NULL: printf("Case NULL\n"); break; case 0: printf("Case ZERO\n"); break; default: printf("DEFAULT\n"); break; } } Find the output	1. Case NULL 2. Case ZERO 3. Case DEFAULT 4. Error	4.0
258	#include <stdio.h> void main() { int a=2; int b=a; switch(b) { case a: printf("Case-a\n"); break; case 3: printf("Case-3\n"); break; default: printf("No option\n"); break; } printf("Exit from switch"); } Find the output	1. Case-2 2. Error: case expression not constant 3. Message Case-2 4. Case-2 Case-3 Exit from switch	2.0

S.NO.	Questions	Choices	Answers
259	#include <stdio.h> void main() { int cnt=1; while(cnt>=10) { printf("%d,",cnt); cnt+=1; } printf("\nAfter loop cnt=%d",cnt); printf("\n"); } Find the output	1. After loop cnt= 1 2. 1, After loop cnt= 2 3. After loop cnt= 2 4. 11	1.0
260	#include <stdio.h> void main() { int i,j,charVal='A'; for(i=5;i>=1;i--) { for(j=0;j< i;j++) printf("%c ",(charVal+j)); printf("\n"); } } Identify the output	1. A B C D E A B C D E A B C D E A B C D E A B C D E 2. A B C D A B C D A B C D A B C D 3. A B C D A B C A B A 4. A B C D E A B C D A B C A B A	3.0
261	#include <stdio.h> void main() { int i=1; while (i<=5) { printf("%d",i); if (i==5) goto print; i++; } } fun() { print: printf("includehelp.com"); } Find the output	1. Error 2. 12345includehelp.com 3. 1234includehelp.com 4. 1includehelp.com 2includehelp.com 3includehelp.com 4includehelp.com 5includehelp.com	1.0
262	#include <stdio.h> void main(){ int intVar=20,x; x= ++intVar,intVar++,++intVar; printf("Value of intVar=%d, x=%d",intVar,x); } Find the output	1. Value of intVar=23, x=21 2. Value of intVar=23, x=23 3. Value of intVar=21, x=21 4.ERROR	1.0

S.NO.	Questions	Choices	Answers
263	#include <stdio.h> void main() { int tally; for(tally=0;tally<10;++tally) { printf("#"); if(tally>6) continue; printf("%d",tally); } } Find the output	1. #0#1#2#3#4#5#6### 2. #0#1#2#3#4#5#6#7#8#9#10 3. #0#1#2#3#4#5##7#8#9#10 4. #0#1#2#3#4#5#	1.0
264	#include <stdio.h> void main(){ unsigned char c=290; printf("%d",c); } Find the output	1. 34 2. 290 3. Garbage value 4. Error	1.0
265	#include <stdio.h> void main() { char cnt=0; for(;cnt++;printf("%d",cnt)) ; printf("%d",cnt); } Find the output	1. 0 1 2 ... infinity 2. 1 2 2 ... 127 3. 0 4. 1	4.0
266	#include <stdio.h< #include <string.h> int main() { char str[]; strcpy(str,"Hello"); printf("%s",str); return 0; } Find the output	1. Hello 2. Error 3. NULL 4. NO OUTPUT	2.0
267	#include #define SUM(x,y) int s; s=x+y; printf("sum=%d\n",s); int main() { SUM(10,20); return 0; } Find the output	1. sum=30 2. 10,20 3. Error 4. sum=0	1.0
268	#include int main() { char ch=10; void *ptr=&ch; printf("%d,%d",*(char*)ptr,++(*(char*)ptr)); return 0; } Find the output	1. 11, 11 2. 10, 11 3. Error 4. 10, 10	1.0

S.NO.	Questions	Choices	Answers
269	#include int main() { char *str []={"AAAAA","BBBBB","CCCCC","DDDDD"}; char **sptr []={str+3,str+2,str+1,str}; char ***pp; pp=sptr; ++pp; printf("%s",**++pp+2); return 0; } Find the output	1. BBBBB 2. CCCCC 3. BBB 4. Error	3.0
270	#include int main() { int a=10,b=2; int *pa=&a,*pb=&b; printf("value = %d", *pa/*pb); return 0; } Find the output	1. 5 2. 5.0 3. ERROR 4. No output	1.0
271	#include void fun(int *ptr) { *ptr=100; } int main() { int num=50; int *pp=# fun(& *pp); printf("%d,%d",num,*pp); return 0; } Find the output	1. 100,100 2. 50,50 3. 50,100 4. Error in function calling	3.0
272	#include #define FUN(x) x*x int main() { int val=0; val=128/FUN(8); printf("val=%d",val); return 0; } Find the output	1. 2 2. 12864 3. 40 4. 1	2.0
273	#include int main () { static int a[]={10, 20, 30 40, 50}; static int *p[]= {a, a+3, a+4, a+1, a+2}; int **ptr=p; ptr++; printf ("%d%d", ptr p, **ptr); } The output of the program is _____	1. 43 2. 140 3. 89 4. 78	2.0
274	#include <stdio.h> #define TRUE 1 int main() { switch(TRUE) { printf("Hello"); } } Find the output	1. Hello 2. ERROR 3. No output 4. Garbage	3.0

S.NO.	Questions	Choices	Answers
275	#include <stdio.h> enum numbers { zero, one, two, three , four=3,five,six,seven=0,eight }; void main() { printf("%d,%d,%d,%d,%d,%d,%d,%d,%d",zero,one,two,three,four,five,six,seven,eight); } What will be the output.	1. 0, 1, 2, 3, 3, 4, 5, 0, 1 2. 0, 1, 2,3,3,1,2,3,4 3. 0,1,2,3,3,1,2,3,4 4. 0, 1, 2, 3, 3, 4, 5, 0, 9	1.0
276	#include <stdio.h> int main(){ char val=250; int ans; ans= val+ !val + ~val + ++val; printf("%d",ans); return 0; } Find the output.	1. -5 2. -6 3. 0 4. 6	2.0
277	#include <stdio.h> int main() { float a,b; a=3.0f; b=4.0f; printf("%.0f,%.1f,%.2f",a/b,a/b,a/b); return 0; } Find the output.	1. 1, 0.8, 0.75 2. 0, 0.7, 0.75 3. 0, 0.8, 0.75 4. Error: Invalid format Specifier	3.0
278	#include <stdio.h> int main(){ float a; (int)a= 10; printf("value of a=%d",a); return 0; } Find the output	1. value of a=10 2. value of a=10.000000 3. value of a=0 4. L-Value required	4.0
279	#include <stdio.h> int main() { int i=-1,j=-1,k=0,l=2,m; m=i++&&j++&&k++||l++; printf("%d %d %d %d %d",i,j,k,l,m); return 0; } Find the output	1. 0 0 1 2 1 2. 0 0 1 3 2 3. 0 0 1 3 1 4. 0 1 1 3 1	3.0
280	#include <stdio.h> int main() { int intVar=24; static int x=intVar; printf("%d,%d",intVar,x); return 0; } Find the output of this program, (program name is: static_ec.c)	1. 24, 24 2. 24, 0 3. Error: Illegal Initialization 4. Run time error	3.0

S.NO.	Questions	Choices	Answers
281	#include <stdio.h> int main() { int ok=-100; -100; printf("%d",ok); return 0; } Find the output.	1. 0 2. -100 3. 100 4. Error	2.0
282	#include <stdio.h> int main() { int var; var=- -10; printf("value of var= %d\n",var); var=+ +10; printf("value of var= %d\n",var); return 0; } Find the output	1. ERROR 2. value of var= -10 value of var= 10 3. value of var= 10 value of var= 10 4. value of var= 10 value of var= 11	3.0
283	#include <stdio.h> int main(){ int x; x=100,30,50; printf("x=%d\n",x); x=(100,30,50); printf("x=%d\n",x); return 0; } Find the output	1. x=100 x=100 2. x=100 x=50 3. x=50 x=50 4. x=50 x=100	2.0
284	#include <stdio.h> void main() { int a=10; switch(a){ case 5+5: printf("Hello\n"); default: printf("OK\n"); } } Find the output	1. Hello 2. OK 3. Hello OK 4. Error	3.0
285	#include <stdio.h> void main() { unsigned short var='B'; var+=2; var++; printf("var : %c , %d ", var,var); } Find the output	1. var : E, 69 2. var : E, 68 3. var : D, 69 4. var : D, 68	1.0

S.NO.	Questions	Choices	Answers
286	#include <stdio.h> void main() { int a=2; switch(a/2*1.5) { case 1: printf("One..."); break; case 2: printf("Two..."); break; default: printf("Other..."); break; } } Find the output	1. One... 2. Two... 3. Other... 4. Error	4.0
287	#include <stdio.h> void main() { short a=2; switch(a) { case 1L: printf("One\n"); break; case 2L: printf("Two\n"); break; default: printf("Else\n"); break; } } Find the output	1. One 2. Two 3. Else 4. Error	2.0
288	#include <stdio.h> void main() { short day=2; switch(day) { case 2: || case 22: printf("%d nd",day); break; default: printf("%d th",day); break; } } Find the output	1. 2 nd 2. 22 nd 3. Error 4. 2 nd 22 nd	3.0
289	#include <stdio.h> int main(){ int a,b,c; a=0x10; b=010; c=a+b; printf("\nAddition is= %d",c); return 0; } Find the output.	1. Addition is = 20 2. Addition is = 24 3. Addition is = Garbage 4. Error	2.0
290	#include <stdio.h> void main() { int x; x= (printf("AA")||printf("BB")); printf("%d",x); printf("\n"); x= (printf("AA")&&printf("BB")); printf("%d",x); } Find the output	1. AABB1 AABB1 2. 1 1 3. AABB1 AA1 4. AA1 AABB1	4.0

S.NO.	Questions	Choices	Answers
291	$a = array(null => 'a', true => 'b', false => 'c', 0 => 'd', 1 => 'e', " => 'f'); echo count($a), "\n"; What will be printed?	1.2 2.3 3.4 4.5	2.0
292	$a = array(); if ($a[1]) null; echo count($a), "\n"; What will be printed?	1.0 2.1 3.2 4.Code wont work	1.0
293	What is the most common approach for the development of application system now?	1. Incremental development 2. Agile 3. Waterfall 4. None of the options	1.0
294	..... data type can store unstructured data	1. RAW 2. CHAR 3. NUMERIC 4. VARCHAR	1.0
295	A wireless network interface controller can work in	1. infrastructure mode 2. ad-hoc mode 3. both infrastructure and ad-hoc mode 4. none	3.0
296	Consider the code snippet given below `var count = [1,,3];` What is the observation made?	1. The omitted value takes “undefined” 2. This results in an error 3. This results in an exception 4. Can't predict	1.0
297	Consider the following javascript statements `x = ~-y;` `w = x = y = z;` `q = a?b:c?d:e?f:g;` The above code snippet is equivalent to:	1. `x = ~(-y); w = (x = (y = z));` `q = a?b:(c?d:(e?f:g));` 2. `x = a?b:(c?d:(e?f:g));` `q = ~(-y); w = (x = (y = z));` 3. `x = (x = (y = z));w = ~(-y);` `q = a?b:(c?d:(e?f:g));` 4. `x = ~(-y); w = (x = (y = z));` `q = (c?d:(e?f:g));`	4.0

S.NO.	Questions	Choices	Answers
298	Consider the following statements `var text = "testing: 1, 2, 3"; // Sample text` `var pattern = /\d+/g // Matches all instances of one or more digits` `In order to check if the pattern matches with the string "text", the statement is`	1. text==pattern 2. text.equals(pattern) 3. text.test(pattern) 4. pattern.test(text)	4.0
299	------ is the minimal super key	1. Partial Key 2. Candidate Key 3. Surrogate Key 4. Unique Key	2.0
300	---------- is a built - in JavaScript function which can be used to execute another function after a given time interval.	1.Timeout( ) 2.TimeInterval( ) 3.setTimeout ( ) 4.All of the above	3.0
301	..... command can be used to modify a column in a table	1. alter 2. update 3. set 4. create	1.0
302	…… is preferred method for enforcing data integrity	1. Constraints 2. Stored Procedure 3. Triggers 4. Cursors	1.0
303	66.6% risk is considered as	1. very low 2. low 3. moderate 4. high	4.0
304	8086 microprocessor is interfaced to 8253 a programmable interval timer. The maximum number by which the clock frequency on one of the timers is divided by	1.216 2.28 3.210 4.220	1.0

S.NO.	Questions	Choices	Answers
305	Which activity most easily lends itself to incremental design?	1. User Interfaces 2. Web Services 3. Enterprise resource planning 4. Embedded Sofftware	3.0
306	Graphical representation of the project, showing each task and activity as horizontal bar whose length is proportion to time taken for a completion of that activity is called	1.Gantt Chart 2. Structure Chart 3. Pert Chart 4. Time Line	1.0
307	Software deteriorates rather than wears out because	1. Software suffers from exposure to hostile environments 2. Defects are more likely to arise after software has been used often 3. Multiple change requests introduce errors in component interactions 4. Software spare parts become harder to order	3.0
308	The 40-20-40 rule suggests that the least amount of development effort can be spent on	1.Estimation and planning 2. Analysis and design 3. Coding 4. Testing	3.0
309	The prototyping model of software development is	1. A reasonable approach when requirements are well defined 2. A Useful approach when a customer cannot define requirements clearly 3. The best approach to use projects with larger development teams 4. A risky model that rarely produces a meaningful product	2.0
310	In reuse-oriented software engineering the last stage is _____.	1. component analysis 2. requirements modification 3. system validation 4. system design	3.0

S.NO.	Questions	Choices	Answers
311	Which of the following is not a part/product of requirements engineering?	1. Feasibility study 2. Requirements validation 3. System models 4. Architectural design	4.0
312	Software Specification is the process where	1. you decide what software you will use to program 2. you develop a prototype and show it to the client 3. You find out what services are required from the system 4. none	3.0
313	What is an advantage of incremental delivery?	1. everything is coded at once, so the customer receives the full product 2. replacement systems are easily developed with full features that clients expected from the old system 3. Customers can use prototypes and gain experience that informs their requirements for later systems 4. none of the mentioned	3.0
314	This is a software development process model	1.waterfall model 2. Incremental model 3. Boehm's Spiral model 4. all	4.0
315	What is the type of software design that defines interfaces between system components?	1. architectural design 2. Interface Design 3. component Design 4. database design	2.0
316	The size of the data count register of a DMA controller is 16 bits. The processor needs to transfer a file of 29,154 kilobytes from disk to main memory. The memory is byte addressable. The minimum number of times the DMA controller needs to get the control of the system bus from the processor to transfer the file from the disk to main memory is	1. 454 2. 455 3. 456 4. 457	3.0

S.NO.	Questions	Choices	Answers
317	For which of the following flip-flop the output clearly defined for all combinations of two inputs?	1. D type flip-flop 2. R S type flip-flop 3. J K flip-flop 4. T flip-flop	3.0
318	In excitation table of D flipflop next state is equal to	1. Next State 2. Present State 3. Previous State 4. D State	4.0
319	A computer system implements 8 kilobyte pages and a +32-bit physical address space. Each page table entry contains a valid bit, a dirty bit, three permission bits, and the translation. If the maximum size of the page table of a process is 24 megabytes, the length of the virtual address supported by the system is _____ bits.	1. 33 2. 35 3. 34 4. 36	4.0
320	A graphical display of the fundamental products in a truth-table is known as	1. Mapping 2. Graphing 3. T-map 4. Karnaugh-Map	4.0
321	A processor can support a maximum memory of 4 GB, where the memory is word-addressable (a word consists of two bytes). The size of the address bus of the processor is at least _____ bits	1. 30 2. 31 3. 32 4. 33	2.0

S.NO.	Questions	Choices	Answers
322	A Stack-organized Computer uses instruction of	1. Indirect addressing 2. Two-addressing 3. Zero addressing 4. Index addressing	3.0
323	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	1. 19 2. 20 3. 21 4. 22	2.0
324	A circuit that converts n inputs to 2^n outputs is called	1. Encoder 2. Decoder 3. Comparator 4. Carry Look Ahead	1.0
325	A Program Counter contains a number 825 and address part of the instruction contains the number 24. The effective address in the relative address mode, when an instruction is read from the memory is	1. 849 2. 850 3. 801 4. 802	2.0
326	Buffering is useful because	1. It makes it seem like there's more memory in the computer 2. It reduces the number of memory copies required 3. It allows all device drivers to use the same code 4. It allows devices and thee CPU to operate asynchronously	4.0

S.NO.	Questions	Choices	Answers
327	Consider a 6-stage instruction pipeline, where all stages are perfectly balanced.Assume that there is no cycle-time overhead of pipelining. When an application is executing on this 6-stage pipeline, the speedup achieved with respect to non-pipelined execution if 25% of the instructions incur 2 pipeline stall cycles is	1. 1 2. 2 3. 4 4.5	3.0
328	Consider a join (relation algebra) between relations r(R)and s(S) using the nested loop method. There are 3 buffers each of size equal to disk block size, out of which one buffer is reserved for intermediate results. Assuming size(r(R))	1. Relation r(R) is in the outer loop. 2. Relation s(S) is in the outer loop. 3. Join selection factor between r(R) and s(S) is more than 0.5 4. Join selection factor between r(R) and s(S) is less than 0.5.	1.0
329	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 can be initiated in 1 millisecond is	1. 5535 2. 65335 3. 53892 4. 10000	4.0
330	Consider two processors P1 and P2 executing the same instruction set. Assume that under identical conditions, for the same input, a program running on P2 takes 25% less time but incurs 20% more CPI (clock cycles per instruction) as compared to the program running on P1 If the clock frequency of P1 is 1GHz, then the clock frequency of P2 (in GHz) is	1. 1.5 2. 1.6 3. 1.7 4. 1.8	2.0
331	Content of the program counter is added to the address part of the instruction in order to obtain the effective address is called	1. relative address mode. 2. index addressing mode. 3. register mode 4. implied mode	1.0

S.NO.	Questions	Choices	Answers
332	How many address bits are needed to select all memory locations in the 16K × 1 RAM?	1. 8 2. 10 3. 14 4. 16	3.0
333	If the associativity of a processor cache is doubled while keeping the capacity and block size unchanged, which one of the following is guaranteed to be NOT affected?	1. Width of tag comparator 2. Width of set index decoder 3. Width of way selection multiplexer 4. Width of processor to main memory data bus	4.0
334	If the main memory is of 8K bytes and the cache memory is of 2K words. It uses associative mapping. Then each word of cache memory shall be_____.	1. 11 bits 2. 21 bits 3. 16 bits 4. 20 bits	3.0
335	If two interrupts, one of higher priority and other of lower priority occur simultaneously, then the service provided is for	1. interrupt of lower priority 2. interrupt of higher priority 3. both the interrupts 4. none of the mentioned	2.0
336	Minterms are arranged in map in a sequence of	1. binary sequence 2. gray code 3. binary variables 4. BCD code	2.0

S.NO.	Questions	Choices	Answers
337	Register renaming is done is pipelined processors	1. As an alternative to register allocation at compile time 2. For efficient access to function parameters and local variables 3. To handle certain kinds of hazards 4. As part of address translation	3.0
338	Simplified form of the boolean expression (X + Y + XY) (X + Z) is	1. X + Y + Z 2. XY + YZ 3. X + YZ 4. XZ + Y	3.0
339	The 16-bit 2's complement representation of an integer is 1111 1111 1111 0101, its decimal representation is	1. 1 2. 2 3. 3 4. -11	4.0
340	The addressing mode used in an instruction of the form ADD R1, R2 is _____.	1. Absolute 2. Indirect 3. Index 4. Register	3.0
341	The capacity of a memory unit is defined by the number of words multiplied by the number of bits/word. How many separate address and data lines are needed for a memory of 4 K × 16?	1. 10 address, 16 data lines 2. 11 address, 8 data lines 3. 12 address, 12 data lines 4. 12 address, 16 data lines	4.0

S.NO.	Questions	Choices	Answers
342	The data-in register of I/O port is	1. read by host to get input 2. read by controller to get input 3. written by host to send output 4. written by host to start a command	1.0
343	The Firmware are stored in read-only memory or _____ chips.	1. Flash memory 2. Dynamic random access memory 3. EEPROM 4. Random-access memory	3.0
344	The performance of cache memory is frequently measured in terms of a quantity called	1. hit ratio 2. miss ratio 3. average ratio 4. ratio	1.0
345	The smallest integer than can be represented by an 8-bit number in 2?s complement form is	1. -256 2. -128 3. -127 4. 1	2.0
346	The main difference between JK and RS flip-flop is that	1. JK flip flop needs a clock pulse 2. There is a feedback in JK flip-flop 3. JK flip-flop accepts both inputs as 1 4. JK flip-flop is acronym of Junction cathode multi-vibrator	3.0

S.NO.	Questions	Choices	Answers
347	The rate at which a computer clock deviates from a perfect reference clock is called as	1. Clock rate 2. Clock speed 3. clock drift rate 4. Transmission Bandwidth	3.0
348	The width of the physical address on a machine is 40 bits. The width of the tag field in a 512 KB 8-way set associative cache is _____ bits	1. 21 2.22 3. 23 4. 24	4.0
349	To build a mod-19 counter the number of flip-flops required is	1. 3 2. 5 3. 7 4. 9	2.0
350	Using 10's complement 72532- 3250 is	1. 69282 2. 69272 3. 69252 4. 69232	1.0
351	What is the main difference between traps and interrupts?	1. How they are initiated 2. The kind of code that’s used to handle them 3. Whether or not the scheduler is called 4. How the operating system returns from them	1.0

S.NO.	Questions	Choices	Answers
352	When an instruction is read from the memory, it is called	1. Memory Read cycle 2. Fetch cycle 3. Instruction cycle 4. Memory write cycle	3.0
353	Which amongst the following refers to Absolute addressing mode	1. move R1, R2 2. move LOC1, LOC2 3. move LOC1, R2 4. move LOC2, R1	1.0
354	Which level of RAID refers to disk mirroring with block striping?	1. RAID level 1 2. RAID level 2 3. RAID level 0 4. RAID level 3	1.0
355	Which of the following logic expression is incorrect?	1. 1 ⊕ 0 = 1 2. 1 ⊕ 1 ⊕ 0 =1 3. 1 ⊕ 1 ⊕ 1 = 1 4. 1 ⊕ 1 = 0	2.0
356	Which of the following paging algorithms is most likely to be used in a virtual memory system?	1. FIFO 2. Second chance 3. Least Recently Used 4. Least Frequently Used	3.0

S.NO.	Questions	Choices	Answers
357	Which one of the following connects high-speed high-bandwidth device to memory subsystem and CPU.	1. expansion bus 2. PCI bus 3. SCSI bus 4. none of the mentioned	1.0
358	Which one of these is characteristic of RAID 5?	1. Distributed parity 2. No Parity 3. All parity in a single disk 4. Double Parity	1.0
359	Which two RAID types use parity for data protection?	1. RAID 1 2. RAID 4 3. RAID 1+0 4. RAID 5	4.0
360	X=1010100 and Y=1000011 using 1's complement Y-X is	1. -10111 2. -10011 3. -10001 4. -11001	3.0
361	The minimum number of NAND gates required to implement the Boolean function. A + AB' + AB'C is equal to	1. Zero 2. 1 3. 4 4. 7	1.0

S.NO.	Questions	Choices	Answers
362	Which of the following boolean expressions is not logically equivalent to all of the rest ?	1. ab + (cd)' + cd + bd' 2. a (b + c) + cd 3. ab + ac + (cd)' 4. bd' + c'd' + ab + cd	3.0
363	Which of the following unit will choose to transform decimal number to binary code ?	1. Encoder 2. Decoder 3. Multiplexer 4. Counter	1.0
364	If the associativity of a processor cache is doubled while keeping the capacity and block size unchanged, which one of the following is guaranteed to be NOT affected?	1.Width of tag comparator 2.Width of set index decoder 3.Width of way selection multiplexer 4.Width of processor to main memory data bus	4.0
365	The correspondence between the main memory blocks and those in the cache is given by	1. Hash function 2. Mapping function 3. Locale function 4. Assign function	2.0
366	The stage delays in a 4-stage pipeline are 800, 500, 400 and 300 picoseconds. The first stage (with delay 800 picoseconds) is replaced with a functionally equivalent design involving two stages with respective delays 600 and 350 picoseconds. The throughput increase of the pipeline is _____ percent.	1. 33 2. 34 3. 35 4. 32	1.0
367	What is the software that runs a computer, including scheduling tasks, managing storage, and handling communication with peripherals?	1. driver 2. application suitex 3. operating system 4. bluetooth technology	3.0

S.NO.	Questions	Choices	Answers
368	For an undirected graph with n vertices and e edges, the sum of the degree of each vertex isequal to	1.2n 2. (2n-1)/2 3.2e 4. pow(e,2)/2	3.0
369	Which attribute is used to extend the lifetime of a cookie?	1. higher-age 2. increase-age 3. max-age 4. lifetime	3.0
370	I am Blue is ____ way of styling HTML elements	1. Internal Style 2. Inline Style 3. External Style 4. Default	2.0
371	_____ is referred to as Static Web	1. Web 1.0 2. Web 2.0 3. Web 3.0 4. Web 4.0	1.0
372	A priority queue is implemented as a Max-Heap. Initially, it has 5 elements. The level-order traversal of the heap is: 10, 8, 5, 3, 2. Two new elements 1 and 7 are inserted into the heap in that order. The level-order traversal of the heap after the insertion of the elements is:	1. 10, 8, 7, 3, 2, 1, 5 2. 10, 8, 7, 2, 3, 1, 5 3. 10, 8, 7, 1, 2, 3, 5 4. 10, 8, 7, 5, 3, 2, 1	1.0
373	A binary tree in which if all its levels except possibly the last, have the maximum number of nodes and all the nodes at the last level appear as far left as possible, is known as	1. full binary tree 2. AVL tree 3. threaded tree 4. complete binary tree	1.0

S.NO.	Questions	Choices	Answers
374	A binary tree T has 20 leaves. The number of nodes in T having two children is	1. 34 2. 99 3. 7 4. 19	4.0
375	A process executes the code fork (); fork (); fork (); The total number of child processes created is	1. 3 2. 4 3. 7 4. 8	3.0
376	A Search engine can serve as	1. both as a server and a client 2. As Client always 3. As Server always 4. Neither client nor server	1.0
377	An object of class A receives a message with an argument that is an instance of class B. Identify the type of relationship between class A and Class B:	1. Generalization 2. Association 3. Aggregation 4. Realization	1.0
378	Consider an undirected graph G where self-loops are not allowed. The vertex set of G is {(i, j): 1 = i = 12, 1 = j = 12}. There is an edge between (a, b) and (c, d) if |a - c| = 1 and |b - d| = 1. The number of edges in this graph is	1. 505 2. 506 3. 507 4. 508	2.0
379	Consider an undirected random graph of eight vertices. The probability that there is an edge between a pair of vertices is ½. What is the expected number of unordered cycles of length three?	1. 1/8 2. 1 3. 7 4. 8	3.0

S.NO.	Questions	Choices	Answers
380	Consider the C function given below. int f(int j) { static int i = 50; int k; if (i == j) { printf("something"); k = f(i); return 0; } else return 0; } Which one of the following is TRUE?	1. The function returns 0 for all values of j. 2. The function prints the string something for all values of j. 3. The function returns 0 when j = 50. 4. The function will exhaust the runtime stack or run into an infinite loop when j = 50.	4.0
381	Consider the following function written the C programming language. void foo (char * a) { if (* a & & * a ! =' '){ putchar (*a); } } } The output of the above function on input 'ABCD EFGH' is	1. ABCD EFGH 2. ABCD 3. HGFE DCBA 4. DCBA	1.0
382	Consider the following New-order strategy for traversing a binary tree: 1)Visit the root; 2)Visit the right subtree using New-order; 3)Visit the left subtree using New-order; The New-order traversal of the expression tree corresponding to the reverse polish expression 3 4 * 5 - 2 ? 6 7 * 1 + - is given by:	1. + - 1 6 7 * 2 ? 5 - 3 4 * 2. . - + 1 * 6 7 ? 2 - 5 * 3 4 3. - + 1 * 7 6 ? 2 - 5 * 4 3 4. . 1 7 6 * + 2 5 4 3 * - ? -	3.0
383	Consider the following program: int f(int *p, int n) { if (n <= 1) return 0; else return max (f (p+1, n-1),p[0]-p[1]); } int main() { int a[] = {3,5,2,6,4}; printf("%d", f(a,5)); } The value printed by this program is	1. 2 2. 1 3. 3 4. 4	3.0
384	Consider the following recursive C function. Void get (int n) {if (n<1) return; get (n-1) get (n-3) ; printf ("%d",n); If get(6) function is being called in main () then how many times will the get() function be invoked before returning to the main ( ) ?	1. 15 2. 25 3. 43 4. 24	2.0

S.NO.	Questions	Choices	Answers
385	Consider the function func shown below: int func(int num) { int count = 0; while (num) { count++; num>>= 1; } return (count); } The value returned by func(435)is	1. 7 2. 8 3. 9 4. 0	3.0
386	For the array (77 ,62,114,80,9,30,99), write the order of the elements after two passes using the Radix sort	1. 80 30 62 114 77 9 99 2. 114 30 62 77 9 99 3. 9 114 30 62 77 80 99 4. 9 30 62 77 80 99 114	2.0
387	How can you make a list that lists the items with numbers?	1. <list> 2. 3. <dl> 4. 	2.0
388	How do you write "Hello World" in PHP?	1. using System.out.println 2. using Document.Write("Hello World") 3. "Hello World" 4. using echo("Hello World")	4.0
389	HTTP is implemented over	1. UDP 2. TCP 3. SMTP 4. POP	2.0
390	If every node u in G adjacent to every other node v in G, A graph is said to be	1. isolated 2. complete 3. finite 4. strongly connected	2.0

S.NO.	Questions	Choices	Answers
391	In a connected graph, a bridge is an edge whose removal disconnects a graph. Which one of the following statements is true?	1. A tree has no bridges 2. A bridge cannot be part of a simple cycle 3. Every edge of a clique with size 3 is a bridge (A clique is any compete sub graph of a graph) 4. A graph with bridges cannot have a cycle	4.0
392	In HTTP, which method gets the resource as specified in the URI	1. GET 2. POST 3. PUT 4. TRACE	3.0
393	Java package is a grouping mechanism with the purpose of	1. Providing the library for the Java program 2. Controlling the visibility of the classes, interfaces and methods 3. Replacing header file used in C/C++ 4. An application framework	2.0
394	Suppose a circular queue of capacity (n ? 1) elements is implemented with an array of n elements. Assume that the insertion and deletion operations are carried out using REAR and FRONT as array index variables, respectively. Initially, REAR = FRONT = 0. The conditions to detect queue full and queue empty are	1. full: (REAR+1) mod n==FRONT empty: REAR ==FRONT 2. (REAR) mod n==FRONT empty: REAR ==FRONT 3. (REAR+1) mod n==Rear empty: REAR ==FRONT 4. full: (FRONT+1) mod n==FRONT empty: REAR ==FRONT	1.0
395	The following function computes the maximum value contained in an integer array p[ ] of size n (n >= 1). int max(int *p, int n) { int a=0, b=n-1; while (_____) { if (p[a] <= p[b]) { a = a+1; } else { b = b-1; } } return p[a]; } The missing loop condition is	1. a != n 2. b != 0 3. b > (a+1) 4. b != a	4.0
396	The following HTML element helps making animated text	1. 2. <ins> 3. <mark> 4. <marquee>	4.0

S.NO.	Questions	Choices	Answers
397	The number of ways in which the numbers 1, 2, 3, 4, 5, 6, 7 can be inserted in an empty binary search tree, such that the resulting tree has height 6, is	1. 63 2. 64 3. 65 4. 66	2.0
398	**The purpose of a TLB is**	1. To cache page translation information 2. To cache frequently used data 3. To hold register values while a process is waiting to be run 4. To hold the start and length of the page table	2.0
399	The following HTML element is used to display horizontal line	1. 2. <h> 3. <hr> 4. <h2>	3.0
400	To prevent any method from overriding, the method has to declared as,	1. static 2. const 3. final 4. extends	3.0
401	Use of _____ allows for some processes to be waiting on I/O while another process executes.	1. multiprogramming 2. multiuser interfacing 3. Random scheduling 4. Variable cpu cycles	1.0
402	What are the parameters of the service method?	1. ServletRequest and ServletResponse 2. HttpServletRequest and HttpServletResponse 3. HttRequest and HttpResponse 4. Request and Response	2.0

S.NO.	Questions	Choices	Answers
403	What does JSP stand for?	1. Java Scripting Pages 2. Java Service Pages 3. Java Server Pages 4. Java Script Program	3.0
404	What does the following bit of JavaScript print out? var a = [1,,3,4,5]; console.log([a[4], a[1], a[5]]);	1. 5, undefined,undefined 2. 5,3,undefined 3. 5,0,undefined 4. 5,null,undefined	1.0
405	What is cell padding?	1. Used to separate cell walls from their contents 2. Used to set space between cells 3. Used to provide width to a cell 4. Used to merge two cells	2.0
406	**What is the correct HTML for making a text input field?**	1. <input type="text"> 2. <textfield> 3. <input type="textfield"> 4. <textinput type="text">	1.0
407	What will be printed as the output of the following program? public class testincr { public static void main(String args[]) { int i = 0; i = i++ + i; System.out.println(" I = " +i); } }	1. I = 0 2. I = 1 3. I = 2 4. I = 3	2.0

S.NO.	Questions	Choices	Answers
408	Which method is used to get the year of a date object in YYYY format in Javascript.	1. getYear() 2. getYYYY() 3. getFullYear() 4. get4Year()	1.0
409	Which of the following input controls that cannot be placed using <input> tag?	1. Text 2. Password 3. Submit 4. Textarea	4.0
410	Which is the correct CSS syntax?	1. body:color=black 2. {body;color:black} 3. {body:color=black(body} 4. body {color: black}	4.0
411	Which of the following asymptotic notation is the worst among all?	1. n + 9378 2. 2^ n-1 3. 2^ n - 1 4. 2n ? 1	2.0
412	Which of the following is/are example(s) of stateful application layer protocols? (i)HTTP (ii)FTP (iii)TCP (iv)POP3	1. (i) and (ii) only 2. (ii) and (iii) only 3. (ii) and (iv) only 4. (iv) only	3.0
413	Which of these is not a valid attribute of <tr> element?	1. valign 2. bgcolor 3. align 4. rowspan	4.0

S.NO.	Questions	Choices	Answers
414	Which of these methods has no restrictions on content size when a form is submitted.	1. GET 2. HEAD 3. POST 4. PUT	3.0
415	Which one is the first search engine in internet?	1. Google 2. Archie 3. AltaVista 4. WAIS	2.0
416	While inserting the elements 71,65,84,69,67,83 in an empty binary search tree (BST) in the sequence shown, the element in the lowest level is	1. 45 2. 67 3. 34 4. 78	2.0
417	A mailer that transforms a message body of an e-mail into a web page is called a	1. Browser enriched mail client 2. HTML-enabled mail client 3. Rich Text mail client 4. client server mail client	2.0
418	An incorrectly typed command will cause the operating system to display	1. a prompt 2. an error message 3. a question mark 4. causes exception	2.0
419	Choose the correct HTML to left-align the content inside a table cell	1. <tdleft> 2. <td leftalign> 3. <td valign="left"> 4. <td align="left">	4.0

S.NO.	Questions	Choices	Answers
420	Consider the below code fragment: if(fork k( ) = = 0) { a= a+5; printf("%d, %d \n", a, &a); } else { a= a ? 5; printf("%d %d \n", 0, &a); } Let u, v be the values printed by parent process and x, y be the values printed by child process. Which one of the following is true?	1. u= x + 10 and v = y 2. u= x + 10 and v!= y 3. u + 10= x and v = y 4. u + 10= x and v != y	3.0
421	Consider the following C code segment: int a, b, c = 0; void prtFun(void); main( ) { static int a = 1; /* Line 1 */ prtFun( ); a + = 1; prtFun( ) printf("\n %d %d", a, b); } void prtFun(void) { static int a=2; /* Line 2 */ int b=1; a+=++b; printf("\n %d %d", a, b); } What output will be generated by the given code segment if: Line 1 is replaced by auto int a = 1; Line 2 is replaced by register int a = 2;	1. 31 41 42 2. 42 61 61 3. 42 62 20 4. 42 42 20	4.0
422	Consider the following C program. #include <stdio.h> int f1 (void) ; int f 2 (void) ; int x = 10; int main () { int x=1; x+=f1()+ f2()+f3()+f2() ; printf("%d", x); return 0; } int f1(){int x=25; x++; return x;} int f2(){static int x =50; x++;return x;} int f3(){x*=10; return x}; The output of the program is_____.	1. 434 2. 230 3. 43 4. 432	2.0
423	Consider the following program: int f(int *p, int n) { if (n <= 1) return 0; else return max (f (p+1, n-1),p[0]-p[1]); } int main() { int a[] = {3,5,2,6,4}; printf("%d", f(a,5)); } The value printed by this program is	1. 1 2. 2 3. 3 4. 4	3.0

S.NO.	Questions	Choices	Answers
424	Find the output of the following program? #include <iostream.h> using namespace std; void myFunction(int& x, int* y, int* z) { static int temp=1; temp += (temp + temp) - 1; x += *(y++ + *z)+ temp - ++temp; *y=x; x=temp; *z= x; cout<<x<<*y<<*z<<temp; } int main() { int i = 0; int j[] = {0, 1, 2, 3, 4, 5, 6, 7, 8, 9}; i=i++ - ++i; myFunction(i, j, &i); return 0; }	1. 3 3 3 2 2. 3 2 3 3 3. 3 2 3 2 4. 3 1 3 3	gar3
425	If you don’t want the frame windows to be resizeable, simply add what to the lines ?	1. save 2. dontresize 3. noresize 4. Delete	3.0
426	Sockets originate from	1. BSD Unix 2. Windows 3. Linux 4. Mac	1.0
427	The preorder traversal sequence of a binary search tree is 30, 20, 10, 15, 25, 23, 39, 35, 42.Which one of the following is the postorder traversal sequence of the same tree?	1. 10,20,15,23,25,35,42,39,30 2. 15,10,25,23,20,42,35,39,30 3. 15,20,10,23,25,42,35,39,30 4. 15,10,23,25,20,35,42,39,30	4.0
428	What will be the output of the following C program? void count(int n){ static int d=1; printf("%d ", n); printf("%d ", d); d++; if(n>1) count(n-1); printf("%d ", d); } void main(){ count(3); }	1. 3 1 2 2 1 3 4 4 4 2. 3 1 2 1 1 1 2 2 2 3. 3 1 2 2 1 3 4 4. 3 1 2 1 1 1 2	1.0

S.NO.	Questions	Choices	Answers
429	Where in an HTML document is the correct place to refer to an external style sheet?	1. In the section 2. In the section 3. At the end of the document 4. At the top of the document	head
430	Which of the following is included in the head section of HTML	1. title,body,form and script 2. title,meta tag,script and CSS 3. title , meta tag,css and form 4. title, body,script and CSS	2.0
431	Which of these is Server side technology?	1. CGI 2. HTML 3. JavaScript 4. CSS	3.0
432	**Which of the following in HTML is used to left align the content inside a table cell?**	1. <td raligh = "left" > 2. <tdleft> 3. <td leftalign> 4. <td align = "left">	4.0
433	Which one of the following statements is NOT correct about HTTP cookies?	1. A cookie is a piece of code that has the potential to compromise the security of an internet user 2. A cookie gains entry to the user's work area through an HTTP header 3. A cookie has an expiry date and time 4. Cookies can be used to track the browsing pattern of a user at a particular site	1.0
434	Consider the following program: int f(int *p, int n) { if (n <= 1) return 0; else return max (f (p+1, n-1),p[0]-p[1]); } int main() { int a[] = {3,5,2,6,4}; printf("%d", f(a,5)); } The value printed by this program is	1. 1 2. 2 3. 3 4. 4	3.0

S.NO.	Questions	Choices	Answers
435	Which of these methods has no restrictions on content size when a form is submitted.	1. GET 2. HEAD 3. POST 4. PUT	3.0
436	_____datastructure used in pushdown automata.	1. Stack 2. array 3. queue 4. linked list	1.0
437	Consider the following: temp=root->left; while(temp->right!=NULL) temp=temp->right; return temp; The above code snippet for a BST with the address of the root node in pointer 'root' returns	1.Inorder successor of the root 2. Maximum element in the right subtree of root 3. Minimum element in the right subtree of root 4. Inorder predecessor of the root	4.0
438	_____ is used to define a special CSS style for a group of HTML elements	1. Class attribute 2. name attribute 3. group attribute 4. id attribute	1.0
439	The _____ attribute defines the action to be performed when the form is submitted	1. method attribute 2. action attribute 3. onSubmit attribute 4. onClick attribute	2.0
440	Consider a schedule S1 given below; R1(A); W1(A); R2(B); R2(A); R1(B); W2(A+B); W1(B); where R1 and W1 are read and write operations of transaction T1 and R2 and W2 are read and write operations of transaction T2. Which of the following is correct regarding schedule S1?	1. S1 is a serializable schedule 2. A deadlock will occur if 2PL is used 3. S1 is a conflict serializable schedule 4. S1 is a view serializable schedule	4.0

S.NO.	Questions	Choices	Answers
441	Boolean algebra is also called	1. switching algebra 2. arithmetic algebra 3. linear algebra 4. algebra	1.0
442	Software prototyping helps to	1. generate code 2. provide thorough testing 3. explore possible software solutions 4. collect initial software requirements	2.0
443	Activities such as documentation and software configuration management are what kind of process activities?	1. Primary 2. Validation 3. Design 4. supporting	4.0
444	In incremental delivery the _____ services are typically delivered first	1. quickest to complete 2. highest-priority 3. cheapest 4. most fun to code	2.0
445	In incremental development system structure tends to _____ as many new increments are added.	1. degrade 2. improve 3. develop its own AI 4. shrink	1.0

S.NO.	Questions	Choices	Answers
446	Software specifications are intended to communicate the system needs _____	1. of the developers to the clients 2. to marketing 3. of the clients to the developers 4. to the general public	3.0
447	This software process model takes the fundamental activities of specification, development, validation, and evolution and represents them as separate process phases such as requirements specification, software design, implementation, testing, and so on	1. Incremental development 2. The waterfall model 3. Reuse-oriented software engineering 4. Boehm's spiral model	2.0
448	What is a software process model?	1. A simplified representation of a software process 2. A presentation put together in Powerpoint 3. A work flow model of the software’s components 4. A prototype of the final software product	1.0
449	What is a type of software design that designs system data structures to be used in a database?	1. architectural design 2. interface Design 3. component Design 4. Database design	4.0
450	What is based on the idea of developing an initial implementation, exposing this to user comment and evolving it through several versions until an adequate system has been developed?	1. The Waterfall Method 2. Incremental Development 3. Reuse-oriented Software Engineering 4. Implementation And Unit Testing	2.0
451	What is NOT part of the design process	1. Architectural design 2. Database design 3. Component design 4. Validation testing	4.0

S.NO.	Questions	Choices	Answers
452	Which is not part of the waterfall method?	1. Requirements Definition 2. System and Software Design 3. Implementation and Unit Testing 4. System Validation	4.0
453	Which statement best describes a benefit of Incremental development over the waterfall model	1. It is possible to gather more of the requirements up front 2. Time to market is faster because there is less overhead 3. It is easier to get customer feedback on the development work that's been done 4. It is easier to reuse existing components.	3.0
454	_____ adds to the costs of Software Development because it usually means that work that has been completed has to be redone	1. Picture quality 2. Production 3. Software speed 4. Change	4.0
455	Given the following structure template, choose the correct syntax for accessing the 5th subject marks of the 3rd student: struct stud { int marks[6]; char sname[20]; char rno[10]; }s[10];	1. stud[2].marks[4] 2. stud[4].marks[2] 3. s[2].marks[4] 4. s[4].marks[2]	3.0
456	By default, any real number in C is treated as ____	1. a float 2. a double 3. a long double 4. depends on the memory model	1.0
457	_____ is the 1st step in the testing process	1. Analyze results 2. Plan test 3. Release product 4. Conduct tests	2.0

S.NO.	Questions	Choices	Answers
458	A set of documents in which a given document can contain text, graphics video and audio clips as well as embedded references to other documents world wide web pages are called as ----------	1. Hypermedia message 2. Hypertext document 3. Hypermedia Documents 4. Path rectangular grid of Pixels	3.0
459	A software requirements specification (SRS) document should avoid discussing which one of the following?	1. User interface issues 2. Non-functional requirements 3. Design specification 4.Interfaces with third party softwareKey	1.0
460	Consider a B+ tree in which the search Answer is 12 bytes long, block size is 1024 bytes,record pointer is 10 bytes long and block pointer is 8 bytes long. The maximum number of keys that can be accommodated in each non-leaf node of the tree is ___	1. 40 2. 50 3. 60 4. 70	2.0
461	Extreme Programming process model includes framework activities such as	1. analysis, design,coding,testing 2. planning,analysis,design,coding 3. planning,analysis,coding,testing 4. planning, design, coding, testing	4.0
462	For automatic objects, constructors and destructors are called each time the objects ___	1. enter and leave scope 2. inherit parent class 3. are constructed 4. are destroyed	1.0
463	Important capability needed for an agile software developer is	1. Trust 2. Competence 3. Decision-making 4. HardworkKey	3.0

S.NO.	Questions	Choices	Answers
464	In which phase is Agile Modeling(AM) carried out	1. Analysis 2. Coding 3. Planning 4. TestingKey	3.0
465	Mnemonic codes and variable names are used in	1. Machine language 2. Assembly language 3. high level language 4. Used nowhere	2.0
466	Waterfall model of software development is also termed as	1. The linear sequential model 2. Fountain model 3. Spiral model 4. Concurrent development model	1.0
467	Which of the following is not a Life-critical System?	1. Fire Dispatch Systems 2. Nuclear Reactors 3. Power Utilities 4. Inventory Management	4.0
468	Which of the following statement is correct about destructors?	1. A destructor has void return type. 2. A destructor has integer return type. 3. A destructor has no return type. 4. A destructors return type is always same as that of main()	3.0
469	#include <iostream.h> using namespace std; int main() { int x=20; if(!(!x)&&x) cout< else { x=10; cout< return 0; } } 	1. 20 2. 10 3. 1 4. 0	1.0

S.NO.	Questions	Choices	Answers
470	Find the output of the following program? #include <iostream.h> using namespace std; typedef int * IntPtr; int main() { IntPtr A, B, C; int D,E; A = new int(3); B = new int(6); C = new int(9); D = 10; E = 20; *A = *B; B = &E; D = (*B)++; *C= (*A)++ * (*B)--; E= *C++ - *B--; cout<<*A<<*B<<*C< return 0; }	1. 62010206 2. 72010107 3. 71020106 4. 10720107	2.0
471	If a , b , c, are three nodes connected in sequence in a singly linked list, find the valid statement that may help to change this list to a circular linked list?	1. a->next=c 2. b->next=c 3. a->next=c 4. c->next=b	4.0
472	Round Robin scheduling is the strategy of temporarily suspending a running process	1. After the CPU time slice expires 2. to allow starving processes to run 3. when it requests IO 4. when OS wait	1.0
473	With a single resource, deadlock occurs _____	1. if there are more than two processes competing for that resource 2. if there are only two process completing for that resource 3. if there is a single process competing for that resource 4. it never occur in this case	1.0
474	_____ OS pays more attention on the meeting of the time limits.	1. Distributed 2. Network 3. Real time 4. Desktop	3.0

S.NO.	Questions	Choices	Answers
475	Consider a software program that is artificially seeded with 100 faults. While testing this program, 159 faults are detected, out of which 75 faults are from those artificially seeded faults. Assuming that both are and seeded faults are of same nature and have same distribution, the estimated number of undetected real fault is	1. 121 2. 175 3. 432 4. 428	4.0
476	Given the code String s1 = ? VIT? ; String s2 = ? VIT ? ; String s3 = new String (s1); Which of the following would equate to true?	1. s1 == s2 2. s1 = s2 3. s3 == s1 4. s3=s1	13.0
477	Suppose T is a binary tree with 14 nodes. What is the minimum possible depth of T?	1. 0 2. 3 3. 4 4. 5	2.0
478	The following HTML _____ element contains meta data which is not displayed inside the document	1. <form> 2. <title> 3. <table> 4. <frame>	2.0
479	To link your Web page to a style sheet, you must use the _____ tag	1. <STYLESHEET> 2. <STYLE> 3. <link> 4. <web>	3.0
480	Which of these will create a shuffled list?	1. 2. 3. <dl> 4. Nested list	1.0

S.NO.	Questions	Choices	Answers
481	Which one of the following is a cryptographic protocol used to secure HTTP connection?	1. Stream Control Transmission Protocol (SCTP). 2. Transport Layer Security (TSL). 3. Explicit Congestion Notification (ECN). 4. Resource Reservation Protocol.	2.0
482	Which of the following is example of in-place algorithm?	1. Bubble Sort 2. Merge Sort 3. Insertion Sort 4.	3.0
483	Which of these is asymptotically bigger?	1. $79n^2+43n$ 2. $65n^3+34n$ 3. $6*2^n$ 4. 5*2n	2.0
484	___ bit in ICW1 indicates whether the 8259A is cascade mode or not	1.LTIM=0 2.LTIM=1 3.SNGL=1 4.SNGL=0	4.0
485	____ messages are typically used for diagnostic or control purposes or generated in response to errors in IP operations.	1.ICMP 2.TCP 3.UDP 4.IP	1.0
486	_____ gives the number of bits that can be transmitted over a network in a fixed time period.	1.Latency 2.Jitter 3.Bandwidth 4.Delay	3.0
487	_____ cryptography refers to encryption methods in which both the sender and receiver share the same key.	1.Symmetric 2.Asymmetric 3.Ceaser key 4.Asymmetric key	1.0
488	_____ is responsible for the final encapsulation of higher-level messages into frames that are sent over the network using the physical layer.	1.Data link layer 2.Network layer 3.Application layer 4.Session layer	1.0
489	_____ appends to the address a slash character and the decimal number of leading bits of the routing prefix.	1.CIDR 2.TCP 3.UDP 4.IP	1.0
490	_____ is assigned to an organization by a global authority.	1.Subnet ID 2.Supernet ID 3.Host ID 4.Network ID	4.0
491	_____ produces the relation that has attributes of R1 and R2	1. Cartesian product 2. Difference 3. Intersection 4. Product	1.0
492	_____ should keep track of multiple file downloads requested by a particular FTP application, or multiple telnet connections from a single terminal client, or web page retrievals from a web server.	1.Transport layer 2.Application layer 3.Presentation layer 4.Session layer	1.0
493	_____ functions as a request-response protocol in the client-server computing model.	1.HTTP 2.IP 3.TCP 4.UDP	1.0
494	_____ is commonly used in wireless LAN.	1. time division multiplexing 2. orthogonal frequency division multiplexing 3. space division multiplexing 4. long division multiplexing	2.0

S.NO.	Questions	Choices	Answers
495	_____ scheduler selects the jobs from the pool of jobs and loads into the ready queue.	1. Long term 2. Short trem 3. Medium term 4. None of these	1.0
496	_____ does the job of allocating a process to the processor.	1. Long term scheduler 2. Short term scheduler (CPU Scheduler) 3. Medium term scheduler 4. Dispatcher	4.0
497	_____ has a dedicated communication path between stations	1.Circuit switching 2.Frame relay 3.Packet switching 4.ATM	1.0
498	_____ is a high speed cache used to hold recently referenced page table entries as a part of paged virtual memory	1. Translation Look-aside buffer 2. Inverse page table 3. Segmented page table 4. Hierarchical page table	1.0
499	_____ memory management scheme will produce least fragement	1. Best Fit 2. Worst Fit 3. First Fit 4. None of these	1.0
500	_____ register keeps tracks of the instructions stored in program stored in memory.	1. AR (Address Register) 2. XR (Index Register) 3. PC (Program Counter) 4. AC (Accumulator)	3.0
501	_____ states that it is Optimal Replacement algorithm	1. Replace the page that will not be used for a longest period of time 2. Replace the page that will not be used for a shortest period of time 3. Replace the page that will be used for a longest period of time 4. Replace the page that will be used for a shortest period of time	1.0
502	_____ algorithm is used for the flow control of data between sender and receiver.	1.Dijkstra 2.RIP 3.Leaky bucket 4.Go Back N	4.0

S.NO.	Questions	Choices	Answers
503	_____ programs automatically connects to web sites and download documents and save them to local drive	1. Web Servers 2. Web Downloading Utilities 3. Stay Connected 4. Offline Browsers	2.0
504	_____ signal prevent the microprocessor from reading the same data more than one	1.pipelining 2.handshaking 3.controlling 4.signaling	2.0
505	_____ function in PHP returns a list of response headers sent (or ready to send)	1.header() 2.headers_list() 3.header_sent() 4.header_send()	2.0
506	_____ is an initial version of a software system that is used to demonstrate concepts, try out design options, and find out more about the problem and its possible solutions.	1. Prototype 2. Architectural Design 3. Subsystem 4. Module	1.0
507	_____ is a basic unit of CPU utilization	1. Process 2. Thread 3. Process Control Block 4. Program Counter	2.0
508	_____is a logical unit of access to a DBMS	1.Transaction 2.Optimization 3.Schema 4.Data	1.0
509	A graphical HTML browser resident at a network client machine Q accesses a static HTML webpage from a HTTP server S. The static HTML page has exactly one static embedded image which is also at S. Assuming no caching, which one of the following is correct about the HTML webpage loading (including the embedded image)?	1. Q needs to send at least 2 HTTP requests to S, each necessarily in a separate TCP connection to server S 2. Q needs to send at least 2 HTTP requests to S, but a single TCP connection to server S is sufficient 3. A single HTTP request from Q to S is sufficient, and a single TCP connection between Q and S is necessary for this 4. A single HTTP request from Q to S is sufficient, and this is possible without any TCP connection between Q and S	2.0
510	A 20-bit address bus can locate _____.	1. 1,048,576 locations 2. 2,097,152 locations 3. 4,194,304 locations 4. 8,388,608 locations	1.0
511	A 32-bit address bus allows access to a memory of capacity	1.1 GB 2.16 MB 3.64 MB 4.4 GB	4.0

S.NO.	Questions	Choices	Answers
512	A B-tree of order m has maximum of _____ children	1. m 2. m + 1 3. m - 1 4. m/2	1.0
513	A binary code that progresses such that only one bit changes between two successive codes is:	1.Gray code 2.excess-3 code 3.8421 code 4.nine's-complement code	1.0
514	A certain 5-bit self-complementary code is used to represent the 10 decimal digits 0 through 9. Given that (246) in decimal is represented as 00010 00100 00110 in this code, what is the representation for (375)?	1.00110 00100 00010 2.00011 00111 00101 3.11001 11101 11011 4.11101 11011 11001	4.0
515	A client process P needs to make a TCP connection to a server process S. Consider the following situation: the server process S executes a socket(), a bind() and a listen() system call in that order, following which it is preempted. Subsequently, the client process P executes a socket() system call followed by connect() system call to connect to the server process S. The server process has not executed any accept() system call. Which one of the following events could take place?	1. connect () system call returns successfully 2. connect () system call blocks 3. connect () system call returns an error 4. connect () system call results in a core dump	3.0
516	A COCOMO model is	1. Common Cost Estimation Model. 2. Constructive Cost Estimation Model. 3. Complete Cost Estimation Model. 4. Comprehensive Cost Estimation Model.	2.0
517	A collection of unused memory reserved for dynamic allocation is called	1.Heap 2.Static 3.array 4.stack dynamic	1.0
518	A comparison between ring and Johnson counters indicates that:	1.A ring counter has fewer flip-flops but requires more decoding circuitry 2.A ring counter has an inverted feedback path 3.A Johnson counter has more flip-flops but less decoding circuitry 4.A Johnson counter has an inverted feedback path	4.0
519	A computer on a 10Mbps network is regulated by a token bucket. The token bucket is filled at a rate of 2Mbps. It is initially filled to capacity with 16Megabits. What is the maximum duration for which the computer can transmit at the full 10Mbps?	1. 1.6 seconds 2. 2 seconds 3. 5 seconds 4. 8 seconds	2.0
520	A data structure where elements can be added or removed at either end but not in the middle	1.linked lists 2.Stacks 3.Queues 4.Deque	4.0
521	A fault simulation testing technique is	1. Mutation testing 2. Stress testing 3. Black box testing 4. White box testing	1.0
522	A grammar that produces more than one parse tree for some sentence is called	1.Ambiguous 2.Irregular 3.Regular 4.Unambiguous	1.0

S.NO.	Questions	Choices	Answers
523	A group of bits that tell the computer to perform a specific operation is known as____.	1. Instruction code 2. Micro-operation 3. Accumulator 4. Register	1.0
524	A J-K flip-flop is in a "no change" condition when _____.	1.J = 1, K = 1 2.J = 1, K = 0 3.J = 0, K = 1 4.J = 0, K = 0	4.0
525	A language is represented by a regular expression (a)*(a+ba). Which of the following string does not belong to the regular set represented by the above expression.	1. aaa 2. aba 3. ababa 4. aa	3.0
526	A layer-4 firewall cannot	1. block HTTP traffic during 9:00PM and 5:00AM 2. block all ICMP traffic 3. stop incoming traffic from a specific IP address but allow outgoing traffic to same IP 4. block TCP traffic from a specific user on a specific IP address on multi-user system during 9:00PM and 5:00AM	1.0
527	A linear collection of data elements where the linear node is given by means of pointer is called	1.primitive list 2.node list 3.linked list 4.array	3.0
528	A major problem with priority scheduling is _____.	1. Definite blocking 2. Starvation 3. Low priority 4. None of these	2.0
529	A minimum state DFA accepting the language L={w/w belongs {0,1}*} number of 0s and 1s in w are divisible by 3 and 5, respectively} has	1. 15 states 2. 7 states 3. 9 states 4. 8 states	1.0
530	A network that contains multiple hubs is most likely configured in which topology?	1.Mesh 2.Tree 3.Bus 4.Star	2.0

S.NO.	Questions	Choices	Answers
531	A NFA converted to DFA has more than one final state.	1. True 2. False 3. may be true 4. always true	1.0
532	A one to many relationship (of table A to Table B) is	1.Where each record in table A can have one or more matching records in table B 2.Where each record in table B can have one or more matching records in table A 3.Where each record in Table B is required to have a match in table A 4.Where each record in table A is required to have a match in table B	1.0
533	A packet switching network	1.can reduce the cost of using an information utility 2.allows communications channel to be shared among more than one user 3.can reduce the cost of using an information utility and allows communications channel to be shared among more than one user 4.is free	3.0
534	A page fault occurs	1. when the page is not in the main memory 2. when the page is in the cache memory 3. when the process enters the blocked state 4. when the process is in the ready state	1.0
535	A parameterized constructor with all arguments initialized is same as	1.default constructor 2.parameterized constructor 3.overriding 4.overloading	1.0
536	A point-to-point protocol over ethernet is a network protocol for	1. encapsulating PPP frames inside ethernet frames 2. encapsulating ethernet frames inside PPP frames 3. for security of ethernet frames 4. for security of PPP frames	1.0
537	A primary key, if combined with a foreign key creates	1.Many to many relationships between the tables that connect them 2.Network model between the tables connect them 3.one to many relationship between the tables that connect them 4.Parent child relationship between the tables that connect them	4.0
538	A professional software engineer must:	1. be loyal to the organization 2. build trust from customers 3. socialize with customers 4. be loyal to the organization and build trust from customers	4.0

S.NO.	Questions	Choices	Answers
539	A relation R is said to be in 2NF when it does not have	1. Partial Dependencies 2. Transitive Dependencies 3. Multivalued Attributes 4. Both Partial dependencies and Multivalued Dependencies	1.0
540	A relational database is	1.the same as a flat file database 2.one that consists of two or more tables that are joined in some way 3.one that consists of two or more tables 4.a database that is able to process tables, queries, forms, reports and macros	4.0
541	A ring counter is same as.	1.up-down counter 2.parallel adder 3.shift register 4.ALU	3.0
542	A set of possible data values is called	1. attribute 2. degree 3. domain 4. tuple	4.0
543	A shift register can be used for.	1.Digital delay line 2.Serial to parallel conversion 3.All of these 4.Parallel to serial conversion	4.0
544	A single channel is shared by multiple signals by	1. analog modulation 2. digital modulation 3. multiplexing 4. none of the mentioned	3.0
545	A software package designed to store and manage databases	1.Database 2.DBMS 3.Data Model 4.Data	2.0
546	A stack organized computer has	1.Three-address Instruction 2. Two-address Instruction 3.One-address Instruction 4. Zero-address Instruction	4.0
547	2.0	1. TRUE 2. False 3. 4.	2.0
548	A static data member is given a value	1.Within the class definition 2.Outside the class definition 3.When the program is exeuted 4.Never	2.0
549	A synchronous sequential circuit is made up of.	1.combinational gates 2.flip-flops 3.both flip-flops and latches 4.both combinational gates and flip-flops	4.0

S.NO.	Questions	Choices	Answers
550	A system uses FIFO policy for page replacement. It has 4 page frames with no pages loaded to begin with. The system first accesses 100 distinct pages in some order and accesses the same 100 pages but now in the reverse order how many page faults will occur?	1. 196 2. 192 3. 197 4. 195	1.0
551	A table can have only one	1. Secondary key 2. Alternate key 3. Unique key 4. Primary key	4.0
552	A tree sturctured file directory system	1. allows easy storage and retrieval of file names 2. is not essential when we have millions of files 3. is a much debated unnecessary feature 4. none of these	1.0
553	A value that has no defined value is expressed in PHP with the following keyword:	1.undef 2.null 3.Cant Define 4.There is no such concept in PHP	2.0
554	A variable P is called pointer if	1.P contains the address of an element in DATA 2.P contain the DATA and the address of DATA 3.P can store only memory addresses 4.P points to the address of first element in DATA	1.0
555	A variable P is called pointer if	1.P contains the address of an element in DATA 2.P contain the DATA and the address of DATA 3.P can store only memory addresses 4.P points to the address of first element in DATA	1.0
556	A view is a	1. virtual table 2. subset of the table 3. base table 4. super table	1.0
557	A Winchester disk is a	1. Disk stack 2. Removable disk 3. Flexible disk 4. None of these	1.0

S.NO.	Questions	Choices	Answers
558	A complete binary min-heap is made by including each integer in [1;1023] exactly once. The depth of a node in the heap is the length of the path from the root of the heap to that node. Thus, the root is at depth 0. The maximum depth at which integer 9 can appear is	1. 7 2. 8 3. 9 4. 10	2.0
559	Abstraction is	1.Having public members 2.having private member and public function 3.friend function 4.friend classes	2.0
560	2.0	1. developer 2. end users 3. test team 4. systems engineers	2.0
561	Access time is faster for _____.	1. ROM 2. SRAM 3. DRAM 4. ERAM	2.0
562	Additive rule	1.cyan+ magenta+ Yellow= white 2.Red + Green + Blue = white 3.cyan+ Green+ Yellow= white 4.cyan+ magenta+ Yellow= Black	2.0
563	Address line for TRAP is?	1. 0023H 2. 0024H 3. 0033H 4. 0099H	2.0
564	ALE stands for _____	1. address latch enable 2. address level enable 3. address leak enable 4. address leak extension	1.0
565	ALGORITHM HAS THE _____ TO THE PROBLEM IN _____ NUMBER OF STEPS	1.SOLUTION & FINITE 2.PROBLEM & INFINITE 3.SOLUTION & INFINITE 4.PROBLEM & FINITE	1.0
566	All devices/host connect to a central switch in _____ topology.	1.Star 2.Ring 3.Bus 4.Tree	1.0
567	All the modules of the system are integrated and tested as complete system in the case of	1. Bottom up testing 2. Top-down testing 3. Sandwich testing 4. Big-Bang testing	4.0

S.NO.	Questions	Choices	Answers
568	Among simple LR (SLR), canonical LR, and look-ahead LR (LALR), which of the following pairs identify the method that is very easy to implement and the method that is the most powerful, in that order?	1. SLR , LALR 2. CLR , LALR 3. SLR , CLR 4. SLR	3.0
569	An activity is said to be critical if slack time is equal to	1. 0 2. 1 3. 2 4. 3	1.0
570	An advantage of the database approach is	1.Elimination of the data redundancy 2.Ability to associate related data 3.Increase security 4.All of the options	4.0
571	An Entity from an ER diagram can be represented in the relational model by a	1.relation 2.domain 3.functional dependency 4.single attribute	1.0
572	An ethernet frame that is less than the IEEE 802.3 minimum length of 64 octets is called	1.short frame 2.runt frame 3.mini frame 4.man frame	2.0
573	An intermediate code form is	1.Postfix notation 2.Syntax trees 3.Three address code 4.Postfix notation, Syntax trees and Three address code	4.0
574	An organization has a class B network and wishes to form subnets for 64 departments. The subnet mask would be:	1. 255.255.0.0 2. 255.255.64.0 3. 255.255.128.0 4. 255.255.252.0	4.0
575	Any code inside a loop that always computes the same value can be moved before the loop. This is called	1.Loop invariant computation 2.Interchange of statements 3.inducation variable 4.Algebraic Transformation	1.0
576	Application layer protocol defines	1. types of messages exchanged 2. message format, syntax and semantics 3. rules for when and how processes send and respond to messages 4. all of the mentioned	4.0

S.NO.	Questions	Choices	Answers
577	Architecture of the database can be viewed as	1. two levels 2. four levels 3. three levels 4. one level	3.0
578	Arrange the operators according to their precedence: **+, %, ->, =**	1. ->, %, +, = 2. =, +, %, ->3. %, +, =, ->4. %, ->, =, +	1.0
579	Assume that a table R with 1000 records is to be joined with another table S with 10000 records. What is the maximum number of records that would result in if we join R with S and the equi-join attribute of S is the primary key?	1. 1000 2. 10000 3. 1,00,00,000 4. 11000	1.0
580	Assume that we have constructor functions for both base class and derived class. Now consider the declaration in main( ). Base * P = New Derived; in what sequence will the constructor be called ?	1.Derived class constructor followed by Base class constructor. 2.Base class constructor followed by derived class constructor. 3.Base class constructor will not be called. 4.Derived class constructor will not be called.	2.0
581	Assume the base address of CS is 3000H and IP is 2000H. Calculate the memory address.	1.32000H 2.3000H 3.30000H 4.2000H	1.0
582	Assume you would like to sort an array in ascending order by value while preserving key associations. Which of the following PHP sorting functions would you use?	1. ksort( ) 2. asort( ) 3. krsort( ) 4. sort( )	2.0
583	Assuming today is , 10 July 2000, what is returned by this statement: SELECT to_char(Last_DAY(sysdate), 'DD-MON-RR') FROM dual;	1. 17-JUL-00 2. 10-JUL-00 3. 31-DEC-00 4. 31-JUL-00	4.0
584	Binary search algorithm can not be applied to	1.sorted linked list 2.sorted binary trees 3.sorted linear array 4.pointer array	4.0
585	Bit stuffing refers to	1.inserting a '0' in user data stream to differentiate it with a flag 2.inserting a '0' in flag data stream to avoid ambiguity 3.appending a nibble to the flag sequence 4.appending a nibble to the user data stream	1.0

S.NO.	Questions	Choices	Answers
586	Bits can be send over guided and unguided media as analog signal using	1. digital modulation 2. amplitude modulation 3. frequency modulation 4. phase modulation	1.0
587	2.0	1. true 2. false 3. 4.	2.0
588	By following modern system engineering practices simulation of reactive systems is no longer necessary.	1. 2.0True 2. FALSE 3. 4.	2.0
589	Cache memory acts between_____.	1. CPU and RAM 2. RAM and ROM 3. CPU and Hard Disk 4. None of these	1.0
590	Calculate the block number in free storage management of files system with number of bits per word is 8, the bit vector is 0001101010101, offset of first 1 bit is 3	1. 59 2. 51 3. 45 4. 53	1.0
591	Calculate the EAT(Effective access time) if 5 micro second is associative look-up time and 0.80 is the hit-ratio in paging hardware with TLB	1. 6.2 micro second 2. 7.8 micro second 3. 2.2 micro second 4. 3.2 micro second	3.0
592	Cartesian product in relational algebra is	1. a Unary operator 2. a Binary operator 3. a Ternary operator 4. not defined	2.0

S.NO.	Questions	Choices	Answers
593	Change cannot be easily accommodated in most software systems, unless the system was designed with change in mind.	1. True 2. False 3. 4.	1.0
594	Changes made to an information system to add the desired but not necessarily the required features is called	1. Preventative maintenance. 2. Adaptive maintenance. 3. Corrective maintenance. 4. Perfective maintenance.	4.0
595	Class ____ IP addresses are used for large organizations	1.A 2.B 3.D 4.C	1.0
596	class n{ int a;}; how much memory the compiler allocates for this class	1.0 2.2 3.depends on compiler 4.4	4.0
597	1.0	1. true 2. false 3. 4.	1.0
598	Classes and components that exhibit functional, layer, or communicational cohesion are relatively easy to implement, test, and maintain.	1. true 2. false 3. 4.	1.0
599	Compile time polymorphism is	1.function overloading 2.template 3.function overriding 4.abstraction	1.0
600	Computers use addressing mode techniques for _____.	1. giving programming versatility to the user by providing facilities as pointers to memory counters for loop control 2. to reduce no. of bits in the field of instruction 3. specifying rules for modifying or interpreting address field of the instruction 4. All of these	4.0
601	Condition testing is a control structure testing technique where the criteria used to design test cases is that they	1. 1.0rely on basis path testing 2. exercise the logical conditions in a program module 3. select test paths based on the locations and uses of variables 4. focus on testing the validity of loop constructs	1.0
602	Consider 2 scenarios: C1: For DFA (ϕ, Σ, δ, qo, F), if F = ϕ, then L = Σ* C2: For NFA (ϕ, Σ, δ, qo, F), if F = ϕ, then L = Σ* Where F = Final states set ϕ = Total states set Choose the correct option ?	1. Both are true 2. Both are False 3. C1 is true, C2 is false 4. C1 is false, C2 is true	3.0
603	Consider a binary tree T that has 200 leaf nodes. Then, the number of nodes in T that have exactly two children are _____.	1.199 2.200 3.Any number between 0 and 199 4.Any number between 100 and 200	1.0

S.NO.	Questions	Choices	Answers
604	Consider a DFA over ∑ = {a, b} accepting all strings which have number of a's divisible by 6 and number of b's divisible by 8. What is the minimum number of states that the DFA will have?	1. 8 2. 14 3. 15 4. 48	4.0
605	Consider a hash table with 9 slots. The hash function is h(k) = k mod 9. The collisions are resolved by chaining. The following 9 keys are inserted in the order: 5, 28, 19, 15, 20, 33, 12, 17, 10. The maximum, minimum, and average chain lengths in the hash table, respectively, are	1.3, 3, and 3 2.3, 0, and 1 3.4, 0, and 1 4.3, 0, and 2	2.0
606	Consider an instance of TCP's Additive Increase Multiplicative Decrease(AIMD) algorithm where the window size at the start of the slow start phase is 2 MSS and the threshold at the start of the first transmission is 8 MSS. Assume that a time out occurs during the fifth transmission. Find the congestion window size at the end of the tenth transmission.	1. 8 MSS 2. 14 MSS 3. 7 MSS 4. 12 MSS	3.0
607	Consider an undirected graph G with 100 nodes. The maximum number of edges to be included is	1.2451 2.4950 3.9900 4.4851	4.0
608	Consider S->SS|a what is the number of different derivation trees for aaaaa	1. 5 2. 3 3. 14 4. 7	3.0
609	Consider the CFG with {S,A,B) as the non-terminal alphabet, {a,b) as the terminal alphabet, S as the start symbol and the following set of production rules S --> aB S --> bA B --> b A --> a B --> bS A --> aS B --> aBB A --> bAA Which of the following strings is generated by the grammar?	1. aaaabb 2. aabbbb 3. aabbab 4. abbbba	3.0
610	Consider the data of previous question. Suppose that the sliding window protocol is used with the sender window size of 2^i where is the number of bits identified in the previous question and acknowledgments are always piggybacked. After sending 2^i frames, what is the minimum time the sender will have to wait before starting transmission of the next frame? (Identify the closest choice ignoring the frame processing time).	1. 16ms 2. 18ms 3. 20ms 4. 22ms	3.0

S.NO.	Questions	Choices	Answers
611	Consider the DFAs M and N given above. The number of states in a minimal DFA that accepts the language L(M) ∩ L(N) is _____.	1. 0 2. 1 3. 2 4. 3	1.0
612	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	1.4 2.2 3.5 4.3	4.0
613	Consider the following C code segment. `for (i = 0, i<n; i++)` `{` `  for (j=0; j<n; j++)` `  {` `  if (i%2)` `  {` `  x += (4*j + 5*i);` `  y += (7 + 4*j);` `  }` `  }` `}` Which one of the following is false?	4.0	4.0
614	Consider the following C declaration struct { short s [5] union { float y; long z; }u; } t; Assume that objects of the type short, float and long occupy 2 bytes, 4 bytes and 8 bytes, respectively. The memory requirement for variable t, ignoring alignment considerations, is	1.10 bytes 2.18 bytes 3.22 bytes 4.14 bytes	2.0
615	Consider the following code segment. `x = u - t;` `y = x * v;` `x = y + w;` `y = t - z;` `y = x * y;` The minimum number of total variables required to convert the above code segment to static single assignment form is	1. 6 2. 8 3. 9 4. 10	4.0
616	Consider the following code snippet `var a1 = [,,,];` `var a2 = new Array(3);` `0 in a1` `0 in a2` Result of Javascript is:	1. true false 2. false true 3. true true 4. false true	1.0
617	Consider the following code snippet: var a = [1,2,3,4,5]; a.slice(0,3); What is the possible output for the above code snippet?	1.Returns [1,2,3] 2.Returns [4,5] 3.Returns [1,2,3,4] 4.Returns [1,2,3,4,5]	1.0
618	Consider the following code snippet `function oddsums(n)` `{` `  let total = 0, result=[];` `  for(let x = 1; x <= n; x++)` `  {` `  let odd = 2*x-1;` `  total += odd;` `  result.push(total);` `  }` `  return result;` `}` What would be the output if `oddsums(5);`	1. Returns [1,4,9,16,25] 2. Returns [1,2,3,4,5] 3. Returns [3,6,9,12,15] 4. Returns [1,3,5,7,9]	1.0
619	Consider the following code: var a = []; a.unshift(1); a.unshift(22); a.shift(); a.unshift(3,[4,5]); a.shift(); a.shift(); a.shift(); The final output for the shift() is	1.1 2.[4,5] 3.[3,4,5] 4.Exception	1.0

S.NO.	Questions	Choices	Answers
620	Consider the following function double f(double x) { if (abs(x*x - 3) < 0.01) return x; else return f(x/2 + 1.5/x); } Give a value q (to 2 decimals) such that f(q) will return q:_____.	1.1.723 2.1.732 3.0.732 4.1.733	2.0
621	Consider the following javascript code snippet : `var a = [];` `a.unshift(1);` `a.unshift(22);` `a.shift();` `a.unshift(3,[4,5]);` `a.shift();` `a.shift();` `a.shift();` `The final output for the shift() is`	1. 1 2. [4,5] 3. [3,4,5] 4. Exception	1.0
622	Consider the following program in C language: #include main() { int i; int *pi = &i; scanf(?%d?,pi); printf(?%d\n?, i+5); } Which one of the following statements is TRUE?	1. Compilation fails. 2. Execution results in a run-time error. 3. On execution, the value printed is 5 more than the address of variable i 4. On execution, the value printed is 5 more than the integer value entered	4.0
623	Consider the following statements for priority queue : S1 : It is a data structure in which the intrinsic ordering of the elements does determine the result of its basic operations. S2 : The elements of a priority queue may be complex structures that are ordered on one or several fields. Which of the following is correct?	1.Both S1 and S2 are incorrect 2.S1 is correct and S2 is incorrect 3.Both S1 and S2 are correct 4.S1 is incorrect and S2 is correct	4.0
624	Consider the following two sets of LR(1) items of an LR(1) grammar. `X -> c.X, c/d` `X -> .cX, c/d` `X -> .d, c/d` `X -> c.X, $` `X -> .cX, $` `X -> .d, $` Which of the following statements related to merging of the two sets in the corresponding LALR parser is/are FALSE? `1. Cannot be merged since look aheads are different.` `2. Can be merged but will result in S-R conflict.` `3. Can be merged but will result in R-R conflict.` `4. Cannot be merged since goto on c will lead to two different sets.`	1. 1 only 2. 2 only 3. 1 and 4 only 4. 1,2,3,4	4.0
625	Consider the following two sets of LR(1) items of an LR(1) grammar. `X -> c.X, c/d` `X -> .cX, c/d` `X -> .d, c/d` `X -> c.X, $` `X -> .cX, $` `X -> .d, $` Which of the following statements related to merging of the two sets in the corresponding LALR parser is/are FALSE? `1. Cannot be merged since look aheads are different.` `2. Can be merged but will result in S-R conflict.` `3. Can be merged but will result in R-R conflict.` `4. Cannot be merged since goto on c will lead to two different sets.`	1. 1 only 2. 2 only 3. 3 and 4 only 4. 1,2,3,4	4.0
626	Consider the grammar shown below. `S → C C` `C → c C | d` The grammar is	1. LL(1) 2. SLR(1) but not LL(1) 3. LALR(1) but not SLR(1) 4. LR(1) but not LALR(1)	1.0

S.NO.	Questions	Choices	Answers
627	Consider the grammar with the following translation rules and E as the start symbol. `E → E1 # T { E.value = E1.value * T.value }` `  | T{ E.value = T.value }` `T → T1 & F { T.value = T1.value + F.value }` `  | F{ T.value = F.value }` `F → num { F.value = num.value }` Compute E.value for the root of the parse tree for the expression: 2 # 3 & 5 # 6 & 4.	1. 200 2. 180 3. 160 4. 40	3.0
628	Consider the grammar `S → (S) | a` Let the number of states in SLR(1), LR(1) and LALR(1) parsers for the grammar be n1, n2 and n3 respectively. The following relationship holds good	1. n1<n2<n3 2. n1=n3<n2 3. n1=n2=n3 4. n1>n2>n3	2.0
629	Consider the intermediate code given below: `1. i = 1` `2. j = 1` `3. t1 = 5 * i` `4. t2 = t1 + j` `5. t3 = 4 * t2` `6. t4 = t3` `7. a[t4] = -1` `8. j = j + 1` `9. if j <= 5 goto(3)` `10. i = i + 1` `11. if i < 5 goto(2)` The number of nodes and edges in the control-flow-graph constructed for the above code, respectively, are	1. 5 and 7 2. 6 and 7 3. 5 and 2 4. 7 and 8	2.0
630	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 is:	1. mn 2. m+n 3. (m+n)/2 4. 2(m+n)	1.0
631	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 is:	1. mn 2. m + n 3. (m + n) / 2 4. 2(m + n)	1.0
632	Consider the regular language L = (111 + 11111)*. The minimum number of states in any DFA accepting this languages is:	1. 3 2. 5 3. 8 4. 9	4.0

S.NO.	Questions	Choices	Answers
633	Consider the relation R1(employee_name, project_name, dependent_name). If {{employee_name -->-> project_name}, {employee_name -->-> dependent_name}}, what is the highest normal form it satisfies?	1. 2NF 2. 3NF 3. BCNF 4. 4NF	1.0
634	Consider the translation scheme shown below `S → T R` `R → + T {print ('+');} R | ε` `T → num {print (num.val);}` Here num is a token that represents an integer and num.val represents the corresponding integer value. For an input string '9 + 5 + 2', this translation scheme will print	1. 9 + 5 + 2 2. 9 5 + 2 + 3. 9 5 2 + + 4. + + 9 5 2	2.0
635	Consider two strings A ='qpqrr' and B = 'pqprqrp'. Let x be the length of the LCS between A and B and let y be the number of such longest common subsequences between A and B. Then x + 10y =	1.42 2.34 3.32 4.30	2.0
636	Count function in SQL returns the number of	1. values 2. distinct values 3. groups 4. columns	1.0
637	CPU Scheduling is the basis of _____ operating system	1. Batch 2. Real Time 3. Multi-programming 4. network	2.0
638	create table student_$(id number(4), namee varchar2(10)); reponse would be	1. Error 2. Table created 3. Table created with error 4. Table created with data	2.0
639	Creating additional function similar to template function is called	1.implicit specialization 2.explicit specialization 3.abstraction 4.template overriding	4.0
640	Cross-compiler is a compiler	1.which is written in a language that is same as the source language. 2.that runs on one computer but produces object code for different type of computer. 3.that generates object code for its host machine. 4.which is written in a language that is different from the source language.	2.0

S.NO.	Questions	Choices	Answers
641	Cryptanalysis is used	1. to find some insecurity in a cryptographic scheme 2. to increase the speed 3. to encrypt the data 4. none of the mentioned	1.0
642	Cryptographic hash function takes an arbitrary block of data and returns	1. fixed size bit string 2. variable size bit string 3. both (a) and (b) 4. None	1.0
643	Currently there is no single standard file type that can be used to play audio using the audio element consistently on all browsers. Which is the solution that the audio element provides to resolve this conflict?	1.Use JavaScript to determine the web browser in use 2.Use Adobe Flash to play the audio 3.Include multiple audio file formats in the src attribute 4.No Solution	
644	1.0	1. rely on basis path testing 2. exercise the logical conditions in a program module 3. select test paths based on the locations and uses of variables 4. focus on testing the validity of loop constructs	1.0
645	Data independence means	1. data is defined separately and not included in programs. 2. programs are not dependent on the physical attributes of data 3. programs are not dependent on the logical attributes of data 4. programs are not dependent on both physical and logical attributes of data	4.0
646	Data Members of the base class that are marked private:	1.does exist in memory when the object of the derived class is created 2.exist in memory when the object of the derived class is created the derived class 3.are visible in the derived class 4.are directly accessible in the derived class	2.0
647	Data Members of the base class that are marked private:	1.does exist in memory when the object of the derived class is created 2.exist in memory when the object of the derived class is created the derived class 3.are visible in the derived class 4.are directly accessible in the derived class	2.0
648	Data Store Symbol in DFD represents a	1. Physical file 2. Data Structure 3. Logical file 4. ALL	2.0
649	DB, DW and DD directives are used to place data in particular location or to simplyallocate space without preassigning anything to space. The DW and DD directories areused to generate	1.f ull address of labels 2.offsets of full address of labels and variables 3.full address of variables 4.offsets	2.0

S.NO.	Questions	Choices	Answers
650	DCL stands for	1. Data Control Language 2. Data Console Language 3. Data Console Level 4. Data Control Level	1.0
651	Demand paged memory allocation	1. allows the virtual address space to be independent of the physical memory 2. allows the virtual address space to be a multiple of the physical memory size 3. allows deadlock to be detected in paging schemes 4. is present only in Windows NT	1.0
652	Desirable properties of relational database design include	1.All of the options 2.minimizing update anomalies 3.minimizing redundancy 4.minimizing insertion/deletion anomalies	1.0
653	Direction flag is used with	1. String instructions 2. Stack instructions. 3. Arithmetic instructions 4. Branch instructions	1.0
654	Divide and conquire mechanism is used in	1.selection sort 2.merge sort 3.quick and merge sorts 4.indexed sequential search	3.0
655	DML is provided for	1. Description of logical structure of database. 2. Addition of new structures in the database system. 3. Manipulation & processing of database. 4. Definition of physical structure of database system.	3.0
656	Drop SQL clause	1. Drops only the values from the table 2. drops structure of the table along with values 3. None of the options 4. changes the structure of the table	2.0
657	Duality principle is used when SE is	1.square 2.symmetric 3.asymmetricd 4.translated	2.0

S.NO.	Questions	Choices	Answers
658	1.0	1. applications, data, technology infrastructure 2. communications, organization, financial infrastructure 3. network, database, reporting structure 4. systems, requirements, data structure	1.0
659	Each counter of IC 8254 can work in ----------differnt modes of operation	1.6 2.5 3.4 4.3	1.0
660	ElGamal encryption system is	1. symmetric key encryption algorithm 2. asymmetric key encryption algorithm 3. not an encryption algorithm 4. none of the mentioned	2.0
661	EPROM is generally erased by using	1. Ultraviolet rays 2. infrared rays 3. 12 V electrical pulse 4. 24 V electrical pulse	1.0
662	Ethernet in metropolitan area network (MAN) can be used as	1. pure ethernet 2. ethernet over SDH 3. ethernet over MPLS 4. combination of all of the above mentioned	4.0
663	3.0	1. reduce the granularity of the plan 2. analyze requirements in depth 3. get all team members to "sign up" to the plan 4. begin design	3.0
664	2.0	1. Are not iterative in nature 2. Can easily accommodate product requirements changes 3. Generally produce throwaway systems 4. Are not specific to applications	2.0

S.NO.	Questions	Choices	Answers
665	External Fragmentation of the file system	1. can be avoided by paging 2. occurs only if the file system is used improperly 3. can be removed by compaction 4.can be avoided by Segmentation	4.0
666	Find the output #include < stdio.h > int main() { int tally=0; for(;;) { if(tally==10) break; printf("%d ",++tally); } return 0; }	1. 0 1 2 3 4 5 6 7 8 9 10 2. 0 1 2 3 ... infinte times 3. 1 2 3 4 5 6 7 8 9 10 4. 1 2 3 4 5 6 7 8 9	3.0
667	Find the output #include <stdio.h> int main() { int x=65; const unsigned char c=(int)x; printf("%c\n",c); return 0; }	1. Error 2. 65 3. A 4. NULL	3.0
668	Find the output #include <stdio.h> struct sample { int a=0; char b='A'; float c=10.5; }; int main() { struct sample s; printf("%d,%c,%f",s.a,s.b,s.c); return 0; }	1. Error 2.0,A,10.5 3. 0,A,10.500000 4. No Error, No Output	1.0
669	Find the output: #include <stdio.h> int main() { int a=100; printf("%d\n"+1,a); printf("Value is = %d"+3,a); return 0; }	1. Error 2. 101, Value is = 103 3. d ue is = 100 4. 100 100	3.0

S.NO.	Questions	Choices	Answers
670	Find the output: #include <stdio.h> int main() { int a=23; ; ;printf("%d",a); ; return 0; }	1. 23 2. Error 3. ;23; 4. ;23	1.0
671	Find the output: #include <stdio.h> void main() { const char var='A'; ++var; printf("%c",var); }	1. B 2. A 3. ERROR 4. 66	3.0
672	FIND THE OUTPUT: #include <stdio.h> void main() { int x=10; x+=(x++)+(++x)+x; printf("%d",x); }	1. 44 2. 45 3. 46 4. 47	2.0
673	Find the output: #include <stdio.h> void main() { int x=(20 || 40) && (10); printf("x= %d",x); }	1. x= 60 2. x= 70 3. x= 0 4. x= 1	4.0
674	Find the output: #include <stdio.h> void main() { char var=10; printf("var is = %d",++var++); }	1. ERROR: can not modify var. 2. ERROR: L-Value required 3. 12 4. ERROR: Expression syntax	2.0
675	First derivative approximation says that values of constant intensities must be	1.1 2.0 3.positive 4.negative	2.0
676	Flip-flop excitation tables shows that	1.For the given PS and NS what will be the inputs 2.For the given PS and NS what will be the outputs 3.For the given PS and NS what will be the type of flip-flops 4.For the given PS and NS what will be the values of NS and PS respectively	4.0
677	Following can be used to implement a SOP function without changing it into minterms	1.MUX 2.PLA 3.ROM 4.DeMUX	4.0

S.NO.	Questions	Choices	Answers
678	For a well understood data processing application it is best to use	1. The waterfall model 2. prototyping model 3. the evolutionary model 4. the spiral model	1.0
679	For purposes of behavior modeling a state is any	1. 3.0 2. data object hierarchy. 3. observable mode of behavior. 4. well defined process.	3.0
680	Foreign Key is	1. A field in a table that matches a key field in another table 2. A field in a table that contains data that is also contained elsewhere in another table 3. A key that consists of more than one field 4. A field in a table that has the same name as a key field in another table	1.0
681	Frames of 1000 bits are sent over a 10^6 bps duplex link between two hosts. The propagation time is 25ms. Frames are to be transmitted into this link to maximally pack them in transit (within the link). What is the minimum number of bits, i will be required to represent the sequence numbers distinctly? Assume that no time gap needs to be given between transmission of two frames.	1. i=2 2. i=3 3. i=4 4. i=5	4.0
682	FTP server listens for connection on port number	1. 20 2. 21 3. 22 4. 23	2.0
683	Functions that combines to produce $f(x,y)$	1.illumination and frequency 2.intensity and reflectance 3.illumination and radiance 4.illumination and reflectance	4.0
684	Generally Dynamic RAM is used as main memory in a computer system as it_____.	1. Consumes less power 2. has higher speed 3. has lower cell density 4. needs refreshing circuitry	2.0

S.NO.	Questions	Choices	Answers
685	Generic process models are:	1. waterfall, componet-based, iterative 2. waterfall, structural, component-based 3. sequential, waterfall, iterative 4. component-based, object-oriented, iterative	4.0
686	Given a comma-separated list of values in a string, which function from the given list can create an array of each individual value with a single call in PHP?	1. strstr( ) 2. extract 3. explode( ) 4. strtok( )	3.0
687	Given a hash table T with 25 slots that stores 2000 elements, the load factor a for T is_____	1.80 2.0.0125 3.8000 4.1.25	2.0
688	Given a variable $email containing the string user@example.com, which of the following PHP statements would extract the string example.com?	1. substr($email, strpos($email, "@")); 2. strstr($email, "@"); 3. strchr($email, "@"); 4. substr($email, strpos($email, "@")+1);	4.0
689	Given an array that represents elements of arithmetic progression in order. It is also given that one element is missing in the progression, the worst case time complexity to find the missing element efficiently is:	1.theta(n) 2.theta(nLogn) 3.theta(Logn) 4.theta(1)	3.0
690	Given CF=0, BX=00111011 01110101 ROR BX,1. The result is	1.CF=1 BX=10011101 10111010 2.CF=1 BX=10100111 01101110 3.CF=0 BX=01001110 11011101 4.CF=0 BX=01010011 10110111	1.0
691	Given the basic ER and relational models, which of the following is INCORRECT?	1. An attributes of an entity can have more that one value 2. An attribute of an entity can be composite 3. In a row of a relational table, an attribute can have more than one value 4. In a row of a relational table, an attribute can have exactly one value or a NULL value	3.0
692	Given the Code segment CS = 1000H and the offset BX=0050H. Calculated physical address is ----------	1.10000H 2.10050H 3.11050H 4.11000H	2.0
693	Given the Extra segment ES = 52B9H and the offset BX=D470H. Calculated physical address is ----------	1.60000H 2.70000H 3.11000H 4.11050H	4.0
694	Given the frequency f=1.5MHZ for 8253 timer the value of time period T is	1.10ms 2.0.66us 3.1ms 4.100ms	2.0
695	Given the functional dependencies, {AB -> CDE and A -> E}, for relation schema R = (A,B,C,D,E) we can infer the following:	1. A is a key for R 2. BE is a key for R 3. AB is a key for R 4. B is a key for R	3.0

S.NO.	Questions	Choices	Answers
696	Given the language L = {ab, aa, baa}, which of the following strings are in L*? 1) abaabaaabaa 2) aaaabaaaa 3) baaaaabaaaab 4) baaaaabaa	1. 1, 2 and 3 2. 1, 2 and 4 3. 1, 3 and 4 4. 2, 3 and 4	2.0
697	Grant and revoke are ..... statements.	1. DDL 2. TCL 3. DCL 4. DML	3.0
698	High speed ethernet works on	1. coaxial cable 2. twisted pair cable 3. optical fiber 4. none of the mentioned	3.0
699	How can we count the number of elements in an array?	1.Using sizeof() 2.count() 3.Writing a user defined function and using array_search() 4.using sizeof() and count()	4.0
700	How can you specify default text in an input field?	1.Using JavaScript 2.Using the 'text' attribute 3.Using the 'placeholder' element 4.Using the 'placeholder' attribute	4.0
701	How do I create PHP arrays in a HTML ?	1.< input name= MyArray[]/> 2.< input ="MyArray[]" /> 3.< input name="MyArray[]" /> 4.< input MyArray[] />	3.0
702	How do substring() and substr() differ?	1.One is not a method of the String object. 2.substr() takes three arguments, substring() only two. 3.Only one accepts a desired string length as an argument. 4.Besides the spelling, nothing.	3.0
703	How do we access the value of 'd' later? $a = array('a', 3 => 'b', 1 => 'c', 'd');	1.$a[0] 2.$a[1] 3.$a[2] 4.$a[4]	4.0
704	How do we prevent margins, borders and padding from overlapping?	1.Setting zero paddings and margins 2.By displaying our list as block elements 3.Using table cells 4.By displaying our list as inline elements	2.0
705	How do we submit form data without a Sumbit button?	1.Using header() function 2.Using Javascript 3.Using fdf_set_submit_form_action() fucntion 4.using header() and javascript	4.0
706	How do you check queue is full in array implementation	1.if(rear==size) 2.if(front==size) 3.if(rear==-1) 4.if(front==-1)	1.0
707	How do you get information from a form that is submitted using the "get" method?	1.Request.QueryString; 2.$_GET[]; 3.Request.Form; 4.$_POST[];	2.0
708	How is a J-K flip-flop made to toggle?	1.J = 0, K = 0 2.J = 0, K = 1 3.J = 1, K = 0 4.J = 1, K = 1	4.0
709	How many bits are required to store one BCD digit?	1.1 2.2 3.3 4.4	4.0
710	How many diagrams are here in Unified Modelling Language?	1. six 2. seven 3. eight 4. nine	4.0
711	How many different states does a 3-bit asynchronous counter have?	1.2 2.4 3.8 4.16	3.0
712	How many flip-flops are required to construct a mod10 counter?	1.10 2.8 3.5 4.4	4.0
713	How many flip-flops are required to make a MOD-32 binary counter?	1.3 2.4 3.5 4.6	3.0
714	How many instances of an abstract class can be created?	1.13 2.5 3.1 4.0	4.0

S.NO.	Questions	Choices	Answers
715	How many minimum states are required in a DFA to find whether a given binary string has odd number of 0's or not, there can be any number of 1's.	1. 1 2. 2 3. 3 4. 4	2.0
716	How many nodes in a tree have no ancestors.	1.2 2.n 3.1 4.0	3.0
717	How many operating modes are available in 8253A.	1.1 2.2 3.6 4.3	3.0
718	How many transistors does the 8086 have	1.29,000 2.10,000 3.129,000 4.110,000	1.0
719	How to create a Date object in JavaScript?	1.dateObjectName = new Date([parameters]) 2.dateObjectName.new Date([parameters]) 3.dateObjectName := new Date([parameters]) 4.dateObjectName Date([parameters])	1.0
720	How to create a memory without a name during the execution of the program?	1.malloc() 2.Queue 3.stack 4.list	1.0
721	How will you free the allocated memory ?	1.remove(var-name); 2.free(var-name); 3.delete(var-name); 4.dalloc(var-name);	2.0
722	How will you handle the overflow condition of a linked queue through code(note: new_node is a newly created node in a memory)	1.if(rear==size) 2.if(new_node==0) 3.if(front==size) 4.if(new_node==null)	1.0
723	HTTP client requests by establishing a _____ connection to a particular port on the server.	1. user datagram protocol 2. transmission control protocol 3. broader gateway protocol 4. RIP	2.0
724	IC 8237 has ----------many pins	1. 40 2. 28 3. 24 4. 20	1.0
725	IC 8257 has ----------many channels for data transfer	1. 1 2. 2 3. 3 4. 4	4.0
726	Identify different segments in a program	1.only code segment 2.data and code segment 3.only data segment 4.data, code, stack and extra segments	4.0
727	Identify the accurate control word for operate counter 0, Read/Write LSB only, Mode 2, BCD countdown.	1.00010111B 2.0001X111B 3.00010101B 4.00110111B	2.0
728	Identify the addressing mode for the instruction MOV AH,47H	1.Immediate addressing mode 2.Direct addressing mode 3.Based addressing mode 4.Indirect addressing mode	2.0
729	Identify the proper data direction and modes of operation of the 8255 ports if the control word written into it is 9BH.	1.Port A as output 2.Port C lower as output 3.Port C upper as input 4.Port B as output	3.0

S.NO.	Questions	Choices	Answers
730	If a class B network on the Internet has a subnet mask of 255.255.248.0, what is the maximum number of hosts per subnet?	1. 1024 2. 1023 3. 2046 4. 2047	3.0
731	If a class C is derived from class B, which is derived from class A, all through public inheritance, then a class C member function can access	1.protected and public data only in C and B 2.protected and public data only in C. 3.private data in A and B. 4.protected data in A and B.	4.0
732	If a constructor function is defined in private section of a class, then	1.The object cannot be created 2.Only its member functions and friends may declare objects of the class 3.Only its friends may declare objects of the class 4.Only its member functions may declare objects of the class	2.0
733	If AL= 7FH and instruction ADD AL,1 is given, specify the contents of the six status flag	1.CF=0,PF=0,AF=1,ZF=0,SF=1,OF=1 . 2.CF=0,PF=1,AF=0,ZF=0,SF=1,OF=1 3.CF=0,PF=1,AF=1,ZF=O,SF=1,OF=1 4.CF=0,PF=0,AF=1,ZF=O,SF=1,OF=0	4.0
734	If AL=C0H, Determine the content of the register AL after SAL AL,1 instruction is executed.	1.E0H 2.80H 3.0CH 4.0EH	2.0
735	If all page frames are initially empty, and a process is allocated 3 page frames in real memory and references its pages in the order 1 2 3 2 4 5 2 3 2 4 1 and the page replacement is FIFO, the total number of page faults caused by the process will be _____	1. 10 2. 7 3. 8 4. 9	4.0
736	If all tasks must be executed in the same time-span, what type of cohesion is being exhibited?	1. Functional Cohesion 2. Temporal Cohesion 3. Functional Cohesion 4. Sequential Cohesion	2.0
737	If class A is friend of class B and if class B is friend of class C, which of the following is true?	1.Class C is friend of Class A 2.Class A is friend of Class C 3.Class A and Class C don't have any friend relationship 4.Class A and Class C are mutual friends	4.0
738	If every requirement stated in the Software Requirement Specification (SRS) has only one interpretation, SRS is said to be	1. correct. 2. unambiguous. 3. consistent. 4. verifiable.	2.0
739	If inspected in a browser, what will be the total width of the div in the following code snippet? #container { width: 600px; border: 2px solid #CCCCCC; padding: 30px 20px; margin: 20px 10px 40px 10px;}	1.664px 2.660px 3.644px 4.600px	1.0
740	If L and L' are recursively enumerable, then L is	1. regular 2. context-free 3. context-sensitive 4. recursive	4.0

S.NO.	Questions	Choices	Answers
741	If M1 machine recognizing L with n states, then M2 recognizing L* constructed Using Thompson construction will have ---------- states.	1. n 2. n+1 3. n+2 4. n-1	2.0
742	If p and q are assigned the values 2 and 3 respectively then the statement P = q++	1.assigns a value 5 to p 2.assigns a value 3 to p 3.gives an error message 4.assigns a value 4 to p	2.0
743	If para1 is the DOM object for a paragraph, what is the correct syntax to change the text within the paragraph?	1."New Text"? 2.para1.value="New Text"; 3.para1.firstChild.nodeValue= "New Text"; 4.para1.nodeValue="New Text";	2.0
744	If the class name is X, what is the type of its "this" pointer?	1.X* 2.const X* const 3.X& 4.X* const	3.0
745	If the disk size is 2^30 bytes and block size is 2^12 bytes then find how many such blocks are there?	1. 2^42 2. 2^18 3. 2^360 4. 2^30	2.0
746	If the PIC outputs the type number of C8H, the CPU will retrive the vector stored in the address ----------	1.00320H - 00323H 2.00324H - 00327H 3.00223H - 00226H 4.00140H - 00143H	
747	If the size of logical address space is 2 to the power of m, and a page size is 2 to the power of n addressing units, then the high order _____ bits of a logical address designate the page number, and the ____ low order bits designate the page offset.	1. m,n 2. n,m 3. m-n,m 4. m-n,n	4.0
748	If there are n relations how many number of join conditions has to be applied to retrieve the data from all the n relations?	1. N+1 2. N 3. N-1 4. A Number in the range 0 toN.	3.0
749	If we create a file by ‘ifstream’, then the default mode of the file is _____	1.ios :: out 2.ios :: in 3.ios :: app 4.ios :: binary	1.0
750	If X->Y and X->Z then	1. Y->Z 2. Z->Y 3. X->YZ 4. Doesn't hold	3.0

S.NO.	Questions	Choices	Answers
751	If x--> y then y --> x. This statement is	1. True 2. False 3. Can't Say 4. Doesn't hold	3.0
752	IF Y is a subset of X then	1. X --> Y 2. Y -->X 3. Y -->--> X 4. X is a sub set of Y	2.0
753	If you have an empty queue and you insert characters ‘r’, ‘a’, ‘t’ (in this order only), what is the order of the characters when you dequeue all the elements?	1.‘r’, ‘a’, ‘t’ 2.‘t’, ‘a’, ‘r’ 3.‘r’, ‘t’, ‘a’ 4.‘t’, ‘r’, ‘a’	1.0
754	IMUL source is a signed _____	1. multiplication 2. addition 3. subtraction 4. division	1.0
755	In 8086 microprocessor one of the following statements is not true	1.Coprocessor is interfaced in MAX mode 2.Coprocessor is interfaced in MIN mode 3.I/O can be interfaced in MAX / MIN mode 4.Supports pipelining	2.0
756	In 8086 microprocessor the following has the highest priority among all type interrupts	1.TYPE 255 2.DIV 0 3.NMI 4.OVER FLOW	3.0
757	In 8086, Example for Non maskable interrupts are _____.	1. TRAP 2. RST6.5 3. INTR 4. RST6.6	1.0
758	In a bottom-up evaluation of a syntax directed definition, inherited attributes can	1. always be evaluated 2. be evaluated only if the definition is L-attributed 3. be evaluated only if the definition has synthesized attributes 4. never be evaluated	2.0
759	In a circular linked list	1.components are arranged hierarchically 2.there is no beginning and no end 3.forward and backward traversal within the list is permitted 4.components are arranged from top to bottom	2.0

S.NO.	Questions	Choices	Answers
760	In a compiler, keywords of a language are recognized during	1. parsing of the program 2. the code generation 3. the lexical analysis of the program 4. dataflow analysis	3.0
761	In a conceptual model for a university, which of the following could most appropriately be represented via a recursive relationship?	1. Student credit hours 2. Course prerequisites 3. Parking sticker assignments 4. Final exam schedules	2.0
762	In a connected graph, a bridge is an edge whose removal disconnects a graph. Which one of the following statements is True?	1.A tree has no bridge 2.A bridge cannot be part of a simple cycle 3.Every edge of a clique with size>=3 is a bridge (A clique is any complete subgraph of a graph) 4.A graph with bridges cannot have a cycle	4.0
763	In a DMA write operation the data is transferred	1. from I/O to memory 2. from memory to I/O 3. from memory to I/O 4. from I/O to I/O	1.0
764	In a microprocessor, the service routine for a certain interrupt starts from a fixed location of memory which cannot be externally set, but the interrupt can be delayed or rejected. Such aninterrupt is	1.maskable and non-vectored 2.non-maskable and vectored 3.maskable and vectored 4.non-maskable and non-vectored	3.0
765	In a network of LANs connected by bridges, packets are sent from one LAN to another through intermediate bridges. Since more than one path may exist between two LANs, packets may have to be routed through multiple bridges. Why is the spanning tree algorithm used for bridge-routing?	1. For shortest path routing between LANs 2. For avoiding loops in the routing paths 3. For fault tolerance 4. For minimizing collisions	2.0
766	In a syntax directed translation schema ,if value of an attribute of a node is function of the values of the attributes of its children , then it is called	1.Inherited attributes 2.Synthesized attributes 3.Canonical atrributes 4.Derived atrributes	2.0
767	In a token ring network the transmission speed is 10^7 bps and the propagation speed is 200 metres/micro second. The 1-bit delay in this network is equivalent to:	1. 500 metres of cable. 2. 200 metres of cable. 3. 20 metres of cable. 4. 50 metres of cable.	3.0

S.NO.	Questions	Choices	Answers
768	In a virtual memory environment	1. segmentation and page tables are stored in the cache and do not add any substantial overhead 2. slow down the computer system considerable 3. segmentation and page tables are stored in the RAM 4. only page table is stored in cache	1.0
769	In access lists and groups which one of the following is correct for the 'RWX' notation of the order 'group, owner, public'	1. 111110001 2. 110111001 3. 001111110 4. 001110111	2.0
770	In an array representation of binary tree, the left child of i th node is located at	1.2i+2 2.(i-1)/2 3.(i-2)/2 4.2i+1	4.0
771	In an array representation of binary tree, the right child of i th node is located at	1.(i-2)/2 2.(i-1)/2 3.2i+2 4.2i+1	3.0
772	In an E-R diagram an entity set is represent by a	1. rectangle 2. ellipse 3. diamond box 4. circle	1.0
773	In an E-R diagram attributes are represented by	1. rectangle 2. square 3. ellipse 4. triangle	3.0
774	In any undirected graph, the sum of the degrees of all nodes is:	1.is twice number of edges 2.is always ODD 3.need not be even 4.must be even	1.0
775	In Assembly language programming, minimum number of operands required for an instruction is/are	1. Zero 2. One 3. Two 4. Three	1.0
776	In asynchronous serial communication the physical layer provides	1.start and stop signalling 2.flow control 3.both (a) and (b) 4.none of the mentioned	3.0
777	In binary heap, whenever the root is removed then the rightmost element of last level is replaced by the root. Why?	1.To make sure that it is still complete binary tree 2.It is the easiest possible way 3.Because left and right subtree might be missing 4.maximum value is contained by the root node	1.0

S.NO.	Questions	Choices	Answers
778	In case of entity integrity, the primary key may be	1.not Null 2.Null 3.a foreign key 4.any value	1.0
779	3.0	1. cannot be a member of the software team 2. cannot be a customer 3. controls and facilitates the process 4. must be an outsider	2.0
780	In context of OSI or TCP/IP computer network models, which of the following is false?	1.Major difference between LAN and WAN is that the later uses switching element 2.Network layer is connection oriented 3.A repeater is used just to forward bits from one network to another one 4.A gateway is used to connect incompatible networks	2.0
781	In cryptography, the order of the letters in a message is rearranged by	1. transpositional ciphers 2. substitution ciphers 3. both (a) and (b) 4. none of the mentioned	1.0
782	In Ethernet when Manchester encoding is used, the bit rate is:	1. Half the baud rate. 2. Twice the baud rate. 3. Same as the baud rate. 4. Grows exponentially	1.0
783	In FTP protocol, client contacts server using ____ as the transport protocol.	1. transmission control protocol 2. user datagram protocol 3. datagram congestion control protocol 4. stream control transmission protocol	1.0
784	In general tree to binary tree conversion, the two links of the binary tree node points to	1.two leaf nodes in the general tree 2.its right child and sibling in the genral tree 3.its left child and sibling in the general tree 4.its left and right child in the general tree	4.0
785	In HTTP pipelining	1. multiple HTTP requests are sent on a single TCP connection without waiting for the corresponding responses 2. multiple HTTP requests can not be sent on a single TCP connection 3. multiple HTTP requests are sent in a queue on a single TCP connection 4. none of the mentioned	1.0

S.NO.	Questions	Choices	Answers
786	In interactive environments such as time-sharing systems, the primary requirement is to provide reasonably good response time and in general, to share system resources equitably. In such situations, the scheduling algorithm that is most popularly applied is _____.	1. Shortest Remaining Time Next (SRTN) Scheduling 2. Priorities Based Preemptive Scheduling 3. Round Robin Scheduling 4. First Come First Serve	3.0
787	In javascript, RegExp Object Method test() is used to search a string and returns _____	1.true or false 2.found value 3.index 4.Matched or not matched	1.0
788	In linear search algorithm the Worst case occurs when	1.The item is somewhere in the middle of the array 2.The item is not in the array at all 3.The item is the last element in the array 4.The item is the last element in the array or is not there at all	4.0
789	In max mode, control bus signal So,S1 and S2 are sent out in _____ form	1. shared 2. decoded 3. encoded 4. unshared	3.0
790	In mysql_fetch_array(),if two or more columns of the result have the same field names, what action is taken?	1. the first column will take precedence 2. the column is skipped 3. the last column will take precedence 4. an error is thrown.	3.0
791	In operator precedence parsing , precedence relations are defoned	1.To delimit the handle 2.For all pair of terminals 3.For all pair of non terminals 4.Only for a certain pair of terminals	3.0
792	In PHP, array values are keyed by _____ values (called indexed arrays) or using _____ values (called associative arrays). Of course, these key methods can be combined as well.	1. Float, string 2. Positive number, negative number 3. String, Boolean 4. Integer, String	4.0
793	In PHP, which of the following function is used to insert content of one php file into another php file before server executes it	1.include[] 2.#include() 3.include() 4.#include{}	3.0
794	In Priority Scheduling a priority number (integer) is associated with each process. The CPU is allocated to the process with the highest priority (smallest integer = highest priority). The problem of, Starvation ? low priority processes may never execute, is resolved by _____.	1. Terminating the process. 2. Aging 3. Mutual Exclusion 4. Semaphore	2.0
795	In software engineering development, if there are no applicable theories, people often use adhoc approach.	1. True 2. False 3. 4.	1.0

S.NO.	Questions	Choices	Answers
796	2.0	1. true 2. false 3. 4.	1.0
797	In the absolute the addressing mode	1. The operand is inside the instruction 2. The address of the operand is inside the instruction 3. The register containing the address of the operand is specified inside the instruction 4. The location of the operand is implicit	1.0
798	In the architecture of a database system external level is the	1.view level 2.conceptual level 3.logical level 4.physical level	1.0
799	In the context of abstract-syntax-tree (AST) and control-flow-graph (CFG), which one of the following is True?	1.In both AST and CFG, let node N2 be the successor of node N1. In the input program, the code corresponding to N2 is present after the code corresponding to N1 2.For any input program, neither AST nor CFG will contain a cycle 3.Each node in AST and CFG corresponds to at most one statement in the input program 4.The maximum number of successors of a node in an AST and a CFG depends on the input program	4.0
800	In the context of object-oriented software engineering a component contains	4.0	4.0
801	In the following code snippet, what is the correct value of the left margin? margin: 10px 5px 20px 15px;	1.10px 2.5px 3.20px 4.15px	4.0
802	In the multi-programming environment, the main memory consisting of _____ number of process.	1. Greater than 100 2. only one 3. Greater than 50 4. More than one	4.0
803	In the network HTTP resources are located by	1. uniform resource identifier 2. unique resource locator 3. unique resource identifier 4. unique resource identifier	1.0
804	In the operation read_item(x), what does x mean?	1. a file 2. a record 3. a disk block 4. all of the options	4.0

S.NO.	Questions	Choices	Answers
805	In the running state	1. only the process which has control of the processor is found 2. all the processes waiting for I/O to be completed are found 3. all the processes waiting for the processor are found 4. everything in these options are found	1.0
806	In the slow start phase of the TCP congestion control algorithm, the size of the congestion window	1. does not increase 2. increases linearly 3. increases quadratically 4. increases exponentially	4.0
807	In the spiral model 'risk analysis' is performed	1. In the first loop 2. in the first and second loop 3. In every loop 4. before using spiral model	3.0
808	In tunnel mode IPsec protects the	1. entire IP packet 2. IP header 3. IP payload 4. none of the mentioned	1.0
809	In what type of coupling, the complete data structure is passed from one module to another?	1.Control Coupling 2.Stamp Coupling 3.External Coupling 4.Content Coupling	2.0
810	In which addressing mode the operand is given explicitly in the instruction	1. Absolute 2. Immediate 3. Indirect 4. Direct	2.0
811	In which case is it mandatory to provide a destructor in a class?	1.Class for which copy constructor is defined 2.Class for which two or more than two objects will be created 3.Almost in every class 4.Class whose objects will be created dynamically	4.0

S.NO.	Questions	Choices	Answers
812	In which mode FTP, the client initiates both the control and data connections.	1. active mode 2. passive mode 3. active mode and passive mode 4. none of the mentioned	2.0
813	In which topology, if there are n devices in a network, each device has n-1 ports for cables?	1.Mesh 2.Star 3.Ring 4.Bus	1.0
814	In which year, 8086 was introduced?	1. 1978 2. 1979 3. 1977 4. 1981	1.0
815	2.0	1. TRUE 2. FALSE 3. 4.	1.0
816	In wireless distribution system	1. multiple access point are inter-connected with each other 2. there is no access point 3. only one access point exists 4. none of the mentioned	1.0
817	In wireless network an extended service set is a set of	1. connected basic service sets 2. all stations 3. all access points 4. all nodes	1.0
818	Information retrieval is faster from	1. Floppy disk 2. Magnetic tape 3. Hard disk 4. CD	3.0

S.NO.	Questions	Choices	Answers
819	Insert into Emp(101, 'XXX') gives the following error	1. missing Select keyword 2. Missing Values 3. both of the errors 4. No of the errors	2.0
820	int main() { int x,y; x=(100,200); y=100,200; printf("x=%d,y=%d",x,y); return 0; } Find the output	1. x=100,y=200 2. x=200,y=200 3. ERROR 4. x=200,y=100	4.0
821	Interaction Diagram is a combined term for	1. Sequence Diagram + Collaboration Diagram 2. Activity Diagram + State Chart Diagram 3. Deployment Diagram + Collaboration Diagram 4. None	1.0
822	Internet Explorer uses ..... property to create transparent images.	1.-moz-opacity:x 2.filter: alpha(opacity=x) 3.filter: beta(opacity=x) 4.-IE-opac:y	2.0
823	Interpolation search is an improved variant of binary search. It is necessary for this search algorithm to work that data collection should be	1.in sorted form and equally distributed 2.in sorted form and but not equally distributed 3.equally distributed but not sorted 4.unsorted and not evenly distributed	1.0
824	IPSec is designed to provide the security at the	1. transport layer 2. network layer 3. application layer 4. session layer	2.0
825	It is difficult to design asynhronous sequential circuit because.	1.External clock is to be provided 2.It is using Flip flops 3.It is more complex 4.Generally they involve stability problem	4.0
826	It is ok to have a single ideal approach to develop a software.	1. True 2. False 3. 4.	2.0
827	It would be ideal if all of computer science theories can be used in software engineering.	1. False 2. True 3. 4.	2.0
828	JavaScript RegExp Object has modifier 'i' to _____	1.Perform case-sensitive matching 2.Perform case-insensitive matching 3.Perform both case-sensitive & case-insensitive matching 4.None of the these	2.0

S.NO.	Questions	Choices	Answers
829	Join is equal to	1. Cartesian Product 2. Combination of Union and Cartesian product 3. Combination of selection and Cartesian product 4. Combination of intersection and Cartesian product	3.0
830	K-map follow following code for marking adjacent variables	1.84-2-1 2.Gray Code 3.2421 4.8421	2.0
831	Let G be a weighted connected undirected graph with distinct positive edge weights.If every edge weight is increased by the same value, then which of the following statements is/are TRUE ? P: Minimum spanning tree of G does not change. Q: Shortest path between any pair of vertices does not change	1. P Only 2. Q Only 3. Neither P nor Q 4. Both P and Q	1.0
832	Let E1 and E2 be two entities in an E/R diagram with simple single-valued attributes. R1 and R2 are two relationships between E1 and E2, where R1 is one-to-many and R2 is many-to-many. R1 and R2 do not have any attributes of their own. What is the minimum number of tables required to represent this situation in the relational model?	1. 2 2. 3 3. 4 4. 5	2.0
833	Let G be a graph with n vertices and m edges, What is the tightest upper bound on the running time on Depth First Search of G? Assume that the graph is represented using adjacency matrix	1.O(n) 2.O(m+n) 3.O(mn) 4.O(n^2)	4.0
834	Let G be the CFG, l be the number of left most derivations, r be the number of right most derivations and P be the number of parse trees. Assume l , r and P are computed for a particular string. For a given CFG ‘G’ and given string ‘w’, what is the relation between l , P , r ?	1. l=P=r 2. l<=P>=r 3. l>=P<=r 4. l<=P<=r	1.0
835	Let G(x) be the generator polynomial used for CRC checking. What is the condition that should be satisfied by G(x) to detect odd number of bits in error?	1. G(x) contains more than two terms 2. G(x) does not divide 1+x^k, for any k not exceeding the frame length 3. 1+x is a factor of G(x) 4. G(x) has an odd number of terms.	3.0

S.NO.	Questions	Choices	Answers
836	Let L1 be a recursive language, and let L2 be a recursively enumerable but not a recursive language. Which one of the following is TRUE? L1' --> Complement of L1 L2' --> Complement of L2	1. L1' is recursive and L2' is recursively enumerable 2. L1' is recursive and L2' is not recursively enumerable 3. L1' and L2' are recursively enumerable 4. L1' is recursively enumerable and L2' is recursive	2.0
837	Let P be a QuickSort Program to sort numbers in ascending order using the first element as pivot, Let t1 and t2 be the number of comparisons made by P for the inputs {1, 2, 3, 4, 5} and {4, 1, 5, 3, 2} respectively,Which one of the following holds?	1.t1=5 2.t1>t2 3.t1 4.t1=t2	2.0
838	Let T(n) be the function defined by T(n) = 1 and T(n) = 2T (n/2) + n, which of the following is TRUE ?	1.T(n) = O(n) 2.T(n) = O(log2n) 3.T(n) = O(n) 4.T(n) = O(n2)	3.0
839	Let w be any string of length n is {0,1}*. Let L be the set of all substrings of w. What is the minimum number of states in a non-deterministic finite automaton that accepts L?	1. n+1 2. n 3. n-1 4. 2n+1	1.0
840	Local and loop optimization in turn provide motivation for	1.Peephole optimization 2.DFA and Constant folding 3.Basic Code Analysis 4.Data flow analysis .	4.0
841	LOCK prefix is used most often	1.during normal execution. 2.during DMA accesses 3.during interrupt servicing. 4.during memory accesses	3.0
842	Logical addressing is used in _____ layer	1.Network 2.Transport 3.Physical 4.Session	1.0
843	1.0	1. rely basis path testing 2. exercise the logical conditions in a program module 3. select test paths based on the locations and uses of variables 4. focus on testing the validity of loop constructs	2.0
844	Magnetic tapes are good storage media for	1. backup and low volume data 2. backup and high volume data 3. storing original but low volume data 4. storing original but high volume data	2.0
845	Manager salary details are hidden from the employee. This is	1.Conceptual level data hiding 2.Physical level data hiding 3.External level data hiding 4.None of mentioned	1.0
846	1.0	1. TRUE 2. FALSE 3. 4.	2.0

S.NO.	Questions	Choices	Answers
847	Match all items in Group 1 with correct options from those given in Group 2. **Group 1** **Group 2** **P. Regular expression** **1. Syntax analysis** **Q. Pushdown automata** **2. Code generation** **R. Dataflow analysis** **3. Lexical analysis** **S. Register allocation** **4. Code optimization**	1. P-4. Q-1, R-2, S-3 2. P-3, Q-1, R-4, S-2 3. P-3, Q-4, R-1, S-2 4. P-2, Q-1, R-4, S-3	2.0
848	Match the following: List-I List-II A. Lexical analysis 1. Graph coloring B. Parsing 2. DFA minimization C. Register allocation 3. Post-order traversal D. Expression evaluation 4. Production tree Codes: A B C D (a) 2 3 1 4 (b) 2 1 4 3 (c) 2 4 1 3 (d) 2 3 4 1	1. a 2. b 3. c 4. d	2.0
849	Memory elements in clocked sequential circuits are called.	1.latches 2.gates 3.signals 4.flipflop	4.0
850	Memory unit accessed by content is called_____	1. Read only memory 2. Programmable Memory 3. Virtual Memory 4. Associative Memory	4.0
851	Mode of communication in which transmission takes place in both directions, but only in one direction at a time is called_____	1.simplex 2.four wired 3.full duplex 4.half-duplex	4.0
852	Modifying the software to match changes in the ever changing environment is called	1. adaptive maintenance 2. corrective maintenance 3. perfective maintenance 4. preventive maintenance	1.0
853	Most software continues to be custom built because	1. Component reuse is common in the software world. 2. 4.0Reusable components are too expensive to use. 3. Software is easier to build without using someone else's components 4. Off-the-shelf software components are unavailable in many application domains.	1.0

S.NO.	Questions	Choices	Answers
854	Multiple choice examination answer sheets can be evaluated automatically by	1. Optical Mark Reader 2. Optical Character Reader 3. Magnetic tape reader 4. Magnetic ink character reader.	1.0
855	Multiple object can be sent over a TCP connection between client and server in	1. persistent HTTP 2. nonpersistent HTTP 3. both persistent HTTP and nonpersistent HTTP 4. p-persistent HTTP	1.0
856	Multiple variable declaration of same data type can be avoided by?	1.array 2.identifiers 3.functions 4.Pointer	1.0
857	Network layer firewall works as a	1. frame filter 2. packet filter 3. both (a) and (b) 4. none of the mentioned	2.0
858	Network models are complicated by physical keys, but the relation model is	1.Slower because it uses logical keys 2.Slower because it uses physical keys 3.Faster because it uses physical keys 4.Faster because it uses logical keys	4.0
859	Network operating system that does not support symmetric multi-processing (SMP) is	1.Banyan (VINES) 2.Microsoft NT advanced server 3.SCO Unix 4.Novell Network 3.X	4.0
860	NOR Gate does NOT follow	1.DeMorgan's Theorem 2.Associative Law 3.Commutative Law 4.Distributive Law	4.0
861	Normalisation of database is used to	1.Minimise Errors 2.Improve Security 3.Eliminate redundancy 4.Improve security	3.0
862	Number of the times the instruction sequence below will loop before coming out of loop is, MOV AL, 00h A1: INC AL JNZ A1	1.255 2.01 3.00 4.256	4.0
863	ODBC stands for	1. Object Database Connectivity. 2. Oral Database Connectivity. 3. Oracle Database Connectivity. 4. Open Database Connectivity.	4.0
864	One application of a digital multiplexer is to facilitate:	1.data generation 2.serial-to-parallel conversion 3.data selector 4.parity checking	1.0
865	One of the fault base testing techniques is	1. unit testing. 2. beta testing. 3. Stress testing. 4. mutation testing.	4.0

S.NO.	Questions	Choices	Answers
866	One of the header fields in an IP datagram is the Time to Live (TTL) field. Which of the following statements best explains the need for this field?	1. It can be used to priortize packets 2. It can be used to reduce delays 3. It can be used to optimize throughput 4. It can be used to prevent packet looping	4.0
867	One of the main advantage of using src attribute is	1.It becomes self-cached 2.It makes the HTML file modular 3.It restricts manipulation in the HTML file 4.It simplifies the HTML files	4.0
868	One of the purposes of using intermediate code in compilers is to	1. make parsing and semantic analysis simpler 2. improve error recovery and error reporting 3. increase the chances of reusing the machine-independent code optimizer in other compilers. 4. improve the register allocation.	3.0
869	overloading + operator requires return type as object because,	1.reference parameter has to be returned 2.binary addition requires that 3.all overloading functions require that 4.chain of additions	3.0
870	Overloading involves writing two or more functions with _____	1.different names and different argument lists 2.different names and the same argument list 3.the same name and different argument lists 4.the same name and the same argument list	3.0
871	Overloading the function operator	1.usually make use of a constructor that takes arguments. 2.allows you to create objects that act syntactically like functions. 3.requires a class with an overloaded operator. 4.requires a class with an overloaded [ ] operator.	3.0
872	Packets of the same session may be routed through different paths in:	1. TCP, but not UDP 2. TCP and UDP 3. UDP, but not TCP 4. Neither TCP nor UDP	2.0
873	Paging _____	1. solves the memory fragmentation problem 2. allows modular programming 3. allows structured programming 4. avoids deadlock	1.0
874	Parallelism and concurrency is fully achieved in which of the following thread model	1. Many-to-one model 2. Many-to-many 3. one-to-one model 4. All the models	1.0

S.NO.	Questions	Choices	Answers
875	Passing the request from one schema to another in DBMS architecture is called as _____	1. Mapping 2. Communication 3. Relational 4. network	1.0
876	Pee hole optimization	1.Local optimization 2.Loop optimization 3.Constant folding 4.Data flow analysis	3.0
877	2.0	1. true 2. false 3. 4.	4.0
878	Physical layer provides	1. mechanical specifications of electrical connectors and cables 2. electrical specification of transmission line signal level 3. specification for IR over optical fiber 4. all of the mentioned	4.0
879	Pick an incorrect declaration: 1. int x[5]; 2. int x[5]={1,2,3,4,5}; 3. int x[5] = {1,2} 4. int x[];	1. 1 2. 2 3. 3 4. 4	4.0
880	Pick the odd one out.	1.[] 2.() 3.:: 4.~	3.0
881	Polymorphism reduces the effort required to extend an object system by	1. Coupling objects together more tightly 2. 2.0enabling a number of different operations to share the same name. 3. making objects more dependent on one another 4. removing the barriers imposed by encapsulation.	4.0
882	Popular application of flip-flop are.	1.Shift registers 2.Transfer register 3.Counters 4.All of these	4.0
883	Postorder Tree travsersal is recursive	1.LDR 2.LRD 3.DLR 4.DRL	2.0
884	PREDICT THE OUTPUT: #include <stdio.h> void main() { int a=10,b=2,x=0; x=a+b*a+10/2*a; printf("value is =%d",x); }	1.Value is =1250 2. Value is =80 3. Value is =125 4. Error	2.0
885	Prim's algorithm is a method available for finding out the minimum cost of a spanning tree. Its time complexity is given by:	1.O(1) 2.O(n*n) 3.O(n logn) 4.O(n)	3.0
886	Program flow graphs are identical to program flowcharts.	1. true 2. false 3. 4.	2.0

S.NO.	Questions	Choices	Answers
887	PSW is saved in stack when there is a _____.	1. interrupt recognized 2. execution of RST instruction 3. Execution of CALL instruction 4. All of these	1.0
888	Quantitative methods for assessing the quality of proposed architectural designs are readily available.	1. TRUE 2. FALSE 3. 4.	2.0
889	Query Tree uses	1. Relational Algebra 2. Tuple Relational Calculus 3. Domain Relational Calculus 4. All of the options	4.0
890	Relations produced from an E - R model will always be in	1.3 NF 2.B CNF 3.2 NF 4.1 NF	1.0
891	Relocating bits used by relocating loader are specified by	1.Relocating loader itself 2.Linker 3.Assembler 4.Macro processor	2.0
892	Replace the page that has not be used for the longest period of time. This principle is adopted by _____	1. FIFO Page replacement algorithm 2. Optimal Page replacement algorithm 3. Round robin scheduling algorithm 4. LRU Page replacement algoorithm	4.0
893	Resource locking _____.	1. Allows multiple tasks to simultaneously use resource 2. Forces only one task to use any resource at any time 3. Can easily cause a dead lock condition 4. Is not used for disk drives	2.0
894	Risk management is one of the most important jobs for a	1. Client 2. Investor 3. Production team 4. Project manager	4.0
895	Routine is not loaded until it is called. All routines are kept on disk in a relocatable load format. The main program is loaded into memory & is executed. This type of loading is called _____	1.Static loading 2.Dynamic loading 3.Dynamic linking 4.Overlays	3.0

S.NO.	Questions	Choices	Answers
896	Routine is not loaded until it is called. All routines are kept on disk in a relocatable load format. The main program is loaded into memory & is executed. This type of loading is called _____	1. Static loading 2. Dynamic loading 3. Dynamic linking 4. Overlays	3.0
897	Run time polymorphism is achieved by _____	1.friend function 2.virtual function 3.operator overloading 4.function overloading	2.0
898	S -> aSa|bSb|a|b; The language generated by the above grammar over the alphabet {a,b} is the set of	1. All palindromes 2. All odd length palindromes. 3. Strings that begin and end with the same symbol 4. All even length palindromes	2.0
899	1.0	1. true 2. false 3. 4.	2.0
900	SELECT department_id, AVG(salary) FROM employees WHERE AVG(salary) > 8000 GROUP BY department_id	1. Displays the department ID along with the average salary of employees in each department if their average of salary is greater than 8000. 2. Displays a error 3. Displays the department ID along with the average salary of employees 4. None of the options	2.0
901	SELECT department_id, COUNT(last_name) FROM employees;	1. Displays a error 2. Displays the department ID along with the number of employees in each department. 3. None of the options 4. Dsiplays department ID and a null value	2.0
902	SELECT employee_id, last_name FROM employees WHERE salary = (SELECT MIN(salary) FROM employees GROUP BY department_id);	1. Displays the employee_id and name of employees who gets minimum salary in their department 2. Error 3. None of the options 4. Displays the employee_id, name of employees and their salary	1.0

S.NO.	Questions	Choices	Answers
903	SELECT last_name, SYSDATE-hire_date FROM employees;	1. Displays number of days an employee has worked in the company. 2. Displays number of months an employee has worked in the company. 3. Error 4. None of the mentioned	1.0
904	Select operation in SQL is equivalent to	1. the selection operation in relational algebra 2. the selection operation in relational algebra, except that select in SQL retains duplicates 3. the projection operation in relational algebra 4. the projection operation in relational algebra, except that select in SQL retains duplicates	4.0
905	Select the conflicting operation:	1. r1(x), w2(y) 2. r1(x), w1(x) 3. w1(y), w2(x) 4. r1(x), w2(x)	3.0
906	SELECT THE HIGHEST PRIORITY OPERATOR	1.&& 2., 3.?: 4.++	4.0
907	Shift reduce parsers are	1.Vertical parser 2.top down and bottom up parser 3.Bottom up parser 4.Top down parser	3.0
908	Simple network management protocol (SNMP) is implemented with a daughter board in	1.the nodes 2.the server 3.the hubs 4.a separate PC that managers the network	3.0
909	Skewed binary trees can be efficiently represented using	1.Arrays 2.Linked lists 3.Stacks 4.Queues	2.0
910	2.0	1. True 2. False 3. 4.	1.0
911	Software engineering includes system engineering.	1. True 2. False 3. 4.	1.0
912	4.0	1.Customer visible usage scenarios 2. Important software features 3.System inputs and outputs 4. ALL	2.0
913	Software is a product and can be manufactured using the same technologies used for other engineering artifacts.	1. True 2. False 3. 4.	2.0

S.NO.	Questions	Choices	Answers
914	Software validation is achieved through a series of tests performed by the user once the software is deployed in his or her work environment.	1. true 2. false 3. 4.	2.0
915	Some code optimizations are carried out on the intermediate code because	1. they enhance the portability of the compiler to other target processors 2. program analysis is more accurate on intermediate code than on machine code 3. the information from dataflow analysis cannot otherwise be used for optimization 4. the information from the front end cannot otherwise be used for optimization	1.0
916	Some code optimizations are carried out on the intermediate code because	1.The information from data flow analysis cannot otherwise be used for optimization 2.They enhance the portability of the complier to other target processors 3.The information from the front end cannot otherwise be used for optimization 4.Program analysis is name accurate on intermediate code than on machine code	2.0
917	Specify the 2 library functions to dynamically allocate memory?	1.alloc() and memalloc() 2.malloc() and calloc() 3.memalloc() and faralloc() 4.malloc() and memalloc()	2.0
918	Spurious tuples are formed because of	1. join operation done on a non-key attribute 2. outer join operation 3. transitive dependencies 4. inner join	1.0
919	SRS is also known as specification of	1. White box testing 2. Stress testing 3. Integrated testing 4. Black box testing	4.0
920	Station A needs to send a message consisting of 9 packets to Station B using a sliding window (window size 3) and go-back-n error control strategy. All packets are ready and immediately available for transmission. If every 5th packet that A transmits gets lost (but no acks from B ever get lost), then what is the number of packets that A will transmit for sending the message to B?	1. 12 2. 14 3. 16 4. 18	3.0

S.NO.	Questions	Choices	Answers
921	Station A uses 32 byte packets to transmit messages to Station B using a sliding window protocol. The round trip delay between A and B is 80 milliseconds and the bottleneck bandwidth on the path between A and B is 128 kbps. What is the optimal window size that A should use?	1. 20 2. 40 3. 160 4. 320	2.0
922	2.0	1. true 2. false 3. 4.	4.0
923	String length is found by the condition	1.str[i]!=NULL 2.str[i]!=sizeof(str) 3.str[i]>='\0' 4.str[i]!='\0'	4.0
924	Suppose a circular queue of capacity (n – 1) elements is implemented with an array of n elements. Assume that the insertion and deletion operation are carried out using REAR and FRONT as array index variables, respectively. Initially, REAR = FRONT = 0. The conditions to detect queue full and queue empty are	1.Full: (FRONT+1) mod n == REAR, empty: REAR == FRONT 2.Full: REAR == FRONT, empty: (REAR+1) mod n == FRONT 3.Full: (REAR+1) mod n == FRONT, empty: (FRONT+1) mod n == REAR 4.Full: (REAR+1) mod n == FRONT, empty: REAR == FRONT	4.0
925	Suppose a circular queue of capacity (n – 1) elements is implemented with an array of n elements. Assume that the insertion and deletion operation are carried out using REAR and FRONT as array index variables, respectively. Initially, REAR = FRONT = 0. The conditions to detect queue full and queue empty are	1.Full: (REAR+1) mod n == FRONT, empty: REAR == FRONT 2.Full: (REAR+1) mod n == FRONT, empty: (FRONT+1) mod n == REAR 3.Full: REAR == FRONT, empty: (REAR+1) mod n == FRONT 4.Full: (FRONT+1) mod n == REAR, empty: REAR == FRONT	1.0
926	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 ____	1.672 2.740 3.358 4.354	3.0
927	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 ____	1.368 2.338 3.348 4.358	4.0
928	Suppose the round trip propagation delay for a 10 Mbps Ethernet having 48-bit jamming signal is 46.4 micro sec. The minimum frame size is:	1. 94 2. 416 3. 464 4. 512	4.0
929	Suppose x is dead, that is, never subsequently used, at the point where the statement x=y+z appears in a basic block. Then this statement may be safely removed without changing the value of the basic block. This transformation is known as _____ .	1.Common subexpression elimination 2.Dead code elimination 3.Renaming temporary variables 4.Loop invarient	2.0
930	Suppose you want to delete the name that occurs before 'Vellore' in an alphabetical listing. Which of the following data structures shall be most efficient for this operation?	1.Circular linked list 2.Dequeue 3.Linked list 4.Doubly linked list	2.0
931	Symantec Antivirus is a customized product.	1. True 2. False 3. 4.	2.0
932	Synchronous counters eliminate the delay problems encountered with asynchronous (ripple) counters because the.	1.input clock pulses are applied simultaneously to each stage 2.input clock pulses are applied only to the first and last stages 3.input clock pulses are applied only to the last stage 4.input clock pulses are not used to activate any of the counter stages	4.0
933	Syntax for creating a RegExp object: (i). var txt=new RegExp(pattern,modifiers); (ii). var txt=/pattern/modifiers; Which of the above mentioned syntax is correct?	1.(i) only 2.(ii) only 3.Both (i) and (ii) 4.None of these	3.0
934	Synthesized attribute can be easily simulated by a	1.LR grammar 2.Ambiguous grammar 3.LL grammar 4.LF grammer	1.0
935	System prototypes allow users	1. to see how well the system supports their work 2. to start working on the system 3. to put the system to production 4. to program the software	1.0

S.NO.	Questions	Choices	Answers
936	System reactions to external events is depicted by	1. State diagram 2. Activity diagram 3. Usecase diagram 4. Sequence diagram	1.0
937	2.0	1. TRUE 2. FALSE 3. 4.	1.0
938	1.0	1. true 2. false 3. 4.	1.0
939	1.0	1. True 2. False 3. 4.	3.0
940	The --------is neither an input nor an output; it is an internal bit programmed via the PC4(Port A) or PC2(Port B)bits	1.IFB 2.INTR 3.INTE 4.NMI	3.0
941	The ..... instruction is used to specify the number of stop bits, data bits,parity bit, and baud rate clock factor for the 8251 UART	1.bit set/reset 2.Mode 3.Command 4.Code	2.0
942	The 1 MB byte of memory can be divided into _____ segment	1. 1 Kbyte 2. 64 Kbyte 3. 33 Kbyte 4. 34 Kbyte	2.0
943	The 16 bit flag of 8086 microprocessor is responsible to indicate _____	1. the condition of result of ALU operation 2. the condition of memory 3. the result of addition 4. the result of subtraction	1.0
944	The 16-bit data segment value is 1000H and the offset is 2000H. calculated physical address is -----	1.10000H 2.11000H 3.12000H 4.12500H	3.0
945	The 16-bit stack segment value is 5D27H and the offset is 2C30H. calculated physical address is -----	1.5FFEOH 2.5FAE0H 3.5FEA0H 4.12500H	3.0

S.NO.	Questions	Choices	Answers
946	The ___ bus controller device decodes the signals to produce the control bus signal	1. internal 2. data 3. external 4. address	3.0
947	The ____ translates internet domain and host names to IP address.	1. domain name system 2. routing information protocol 3. network time protocol 4. internet relay chat	1.0
948	The _____ method of an Array object adds and/or removes elements from an array.	1. Slice 2. Reverse 3. Shift 4. Splice	4.0
949	The _____ ensures that only one IC is active at a time to avoid a bus conflict caused by two ICs writing different data to the same bus	1.control bus 2.control instructions 3.address decoder 4.CPU	3.0
950	The _____ property specifies the stack order of an element	1.d-index 2.s-index 3.x-index 4.z-index	4.0
951	The access method used for magnetic tape is_____	1. Direct 2. Random 3. Sequential 4. None of these	3.0
952	The address resolution protocol (ARP) is used for:	1. Finding the IP address using DNS 2. Finding the IP address of the default gateway 3. Finding the IP address that corresponds to a MAC address 4. Finding the MAC address that corresponds to an IP address	4.0
953	The advantage of DBMS over file systems is	1. redundancy 2. data dependence 3. multiple user 4. single user	1.0

S.NO.	Questions	Choices	Answers
954	1.0	1. data, hardware, software, people 2. data, documentation, hardware, software 3. data, hardware, software, procedures 4.documentation, hardware, people, procedures	1.0
955	The ASCII encoding of binary data is called	1. base 64 encoding 2. base 32 encoding 3. base 16 encoding 4. base 8 encoding	1.0
956	The average time required to reach a storage location in memory and obtain its contents is called the	1. seek time 2. turnaround time 3. access time 4. transfer time	3.0
957	The best index for exact match query is	1. Bucket Hash 2. Quad tree 3. B Tree 4. B+ Tree	1.0
958	1.0	1.software developers do not need to do any testing 2.a test team will test the software more thoroughly 3.testers do not get involved with the project until testing begins 4.arguments between developers and testers are reduced	4.0
959	4.0	1. examine the system model for errors 2. have the customer look over the requirements 3. send them to the design team and see if they have any concerns 4. use a checklist of questions to examine each requirement	2.0
960	The BIU contains FIFO register of size _____ bytes	1. 8 2. 6 3. 4 4. 12	2.0

S.NO.	Questions	Choices	Answers
961	The BIU prefetches the instruction from memory and store them in _____	1. queue 2. register 3. memory 4. stack	1.0
962	The call to the parameterized constructor of base class in the derived class	1.ppears inside the definition of the derived class constructor 2.appears in the member initialization list of the derived class constructor 3.appears inside the definition of the derived class 4.appears at the statement where the derived class object is created	4.0
963	The call to the parameterized constructor of base class in the derived class	1.ppears inside the definition of the derived class constructor 2.appears in the member initialization list of the derived class constructor 3.appears inside the definition of the derived class 4.appears at the statement where the derived class object is created	4.0
964	The combination of Sixteen adjacent squares in four variable K-map represent the function equal to	1.Four literal 2.One literal 3.Unity 4.Zero	3.0
965	The counters of 8253 can be operated in -------- modes of operation.	1.4 2.3 3.6 4.5	3.0
966	The cyclomatic complexity metric provides the designer with information regarding the number of	1. cycles in the program 2. errors in the program 3. 3.0independent logic paths in the program 4. statements in the program	4.0
967	The data structure required for Breadth First Traversal on a graph is	1.tree 2.array 3.stack 4.queue	4.0
968	THE DATA TYPE IS ALL ABOUT	1.NAME VALUE ADDRESS 2.BITS BYTES WORD 3.SIZE LIMITS RESTRICTIONS 4.TYPE SIZE RANGE	4.0
969	The decimal equivalent of hexadecimal number of 'A580' is	1.43286 2.42368 3.43288 4.48632	2.0
970	The default copy constructor performs	1.Deep Copy 2.Shallow Copy 3.Soft Copy 4.Hard Copy	2.0
971	The degree sequence of a simple graph is the sequence of the degrees of the nodes in the graph in decreasing order. Which of the following sequences can not be the degree sequence of any graph? I. 7, 6, 5, 4, 4, 3, 2, 1 II. 6, 6, 6, 6, 3, 3, 2, 2 III. 7, 6, 6, 4, 4, 3, 2, 2 IV. 8, 7, 7, 6, 4, 2, 1, 1	1.IV only 2.III and IV 3.I and II 4.II and IV	4.0
972	The design process related to data structures and their representation is	1. Architectural design 2. Interface design 3. Component design 4. Database design	4.0
973	The difference between linear array and a record is	1.A record form a hierarchical structure but a linear array does not 2.All of above 3.An array is suitable for homogeneous data but the data items in a record may have different data type 4.In a record, there may not be a natural ordering in opposed to linear array	3.0
974	The Document object is which part of the object?	1.Tree 2.System 3.Window 4.Screen	3.0
975	The efficient data structure to insert/delete a number in a stored set of numbers is	1.Queue 2.Linked list 3.Doubly linked list 4.Binary tree	2.0
976	The entity relationship diagram	1. depicts relationships between data objects 2. depicts functions that transform the data flow 3. indicates how data are transformed by the system 4. indicates system reactions to external events	1.0
977	The ESC instruction of 8086 may have two formats. In one of the formats, no memory operand is used. Under this format, the number of external op-codes (for the co- processor) which can be specified is	1.64 2.128 3.256 4.512	2.0

S.NO.	Questions	Choices	Answers
978	The external system bus architecture is created using from _____ architecture	1. Pascal 2. Dennis Ritchie 3. Charles Babbage 4. Von Neumann	4.0
979	The file transfer protocol is built on	1. data centric architecture 2. service oriented architecture 3. client server architecture 4. peer to peer architecture	3.0
980	The first processor to include Virtual memory in the Intel microprocessor familywas	1.Pentium 2.80486 3.80286 4.80386	3.0
981	The following is not a Relational Model Constraint	1.Referential Integrity Constraint 2.Check Constraint 3.Foreign Key Constraint 4.Entity Integrity Constraint	1.0
982	The following SQL is which type of join: SELECT CUSTOMER_T. CUSTOMER_ID, ORDER_T. CUSTOMER_ID, NAME, ORDER_ID FROM CUSTOMER_T,ORDER_T ;	1. Equi-join 2. Natural join 3. Outer join 4. Cartesian join	4.0
983	4.0	1. Define the specification for computer-based system 2. Develop defect free computer-based systems 3. Verify the correctness of computer-based systems 4. ALL	1.0
984	The function used to remove the leading spaces is	1. ltrim 2. lpad 3. rpad 4. rtrim	1.0
985	The goal of product engineering is to translate the customer's desire for a set of defined capabilities into a working product.	1. TRUE 2. FALSE 3. 4.	1.0

S.NO.	Questions	Choices	Answers
986	The grammar A → AA | (A) | ε is not suitable for predictive-parsing because the grammar is	1. ambiguous 2. left-recursive 3. right-recursive 4. an operator-grammar	2.0
987	The grammar S → aSa | bS | c is	1. LL(1) but not LR(1) 2. LR(1)but not LR(1) 3. Both LL(1)and LR(1) 4. Neither LL(1)nor LR(1)	3.0
988	The Hardware mechanism that enables a device to notify the CPU is called _____.	1. Polling 2. Interrupt 3. Systems Call 4. None of these	2.0
989	The high paging activity is called _____	1. Inter process communication 2. Thrashing 3. Context Switching 4. Working Set	2.0
990	The IC 8237 is a	1. DMA Controller 2. Interrupt Controller 3. Keyboard controller 4. Serial Interface Controller	1.0
991	The IC 8251 A has ----------many pins	1. 24 2. 28 3. 40 4. 30	3.0

S.NO.	Questions	Choices	Answers
992	The IC 8254 has ----------many pins	1. 24 2. 28 3. 34 4. 40	1.0
993	The IC 8254 has ----------many 16 bit counters	1. 1 2. 2 3. 3 4. 4	3.0
994	The IC 8279 has ----------many pins	1. 20 2. 30 3. 40 4. 10	4.0
995	The IC Number for USART is ----------	1. IC 8251A 2. IC8259 3. IC5255 4. IC 8254	1.0
996	The idea of cache memory is based	1. on the property of locality of reference 2. on the heuristic 90-10 rule 3. on the fact that references generally tend to cluster 4. all of these	1.0
997	The importance of software design can be summarized in a single word	1. accuracy 2. complexity 3. 4.0efficiency 4. quality	3.0

S.NO.	Questions	Choices	Answers
998	The Incremental Model is a result of combination of elements of which two models?	1. Build & FIX Model & Waterfall Model 2. Linear Model & RAD Model 3. Linear Model & Prototyping Model 4. Waterfall Model & RAD Model	3.0
999	The incremental model of software development is	1. A reasonable approach when requirements are well defined. 2. A good approach when a working core product is required quickly. 3. The best approach to use for projects with large development teams. 4. A revolutionary model that is not used for commercial products.	2.0
1000	The intel 8086 microprocessor is a _____ processor	1. 8 bit 2. 16 bit 3. 32 bit 4. 4bit	2.0
1001	The internal block diagram of 80286 contains ---- functional parts.	1.6 2.4 3.2 4.8	2.0
1002	The interrupt cycle ends when the ..... instruction is executed	1.IRET 2.CALL 3.PUSH 4.POP	3.0
1003	The intersection of CFL and regular language	1. Is always regular and context free 2. Is always regular 3. Is always context free 4. Need not be regular	3.0
1004	The IP is _____ bits in length	1. 8 bits 2. 4 bits 3. 16 bits 4. 32 bits	4.0
1005	The javascript statement a===b refers to	1. Both a and b are equal in value, type and reference address 2. Both a and b are equal in value 3. Both a and b are equal in value and type 4. There is no such statement	3.0

S.NO.	Questions	Choices	Answers
1006	The kernel keeps track of the state of each task by using a data structure called __	1. Process control block 2. Process Status Word 3. Memory control block 4. None of these	1.0
1007	The language accepted by a Pushdown Automation in which the stack is limited to 10 items is best described as	1. Regular 2. context free 3. Recursive 4. Deterministic context free	1.0
1008	The language L= $\{0^i21^i \mid i \geq 0\}$ over the alphabet {0,1, 2} is:	1. not recursive 2. is recursive and is a deterministic CFL 3. is a regular language 4. is not a deterministic CFL but a CFL	2.0
1009	The language that the computer can understand and execute is called _____	1. Machine language 2. Application software 3. System program 4. None of these	1.0
1010	The language $\{a^m b^n C^{m+n} \mid m, n \geq 1\}$ is	1. Regular language 2. context free but not regular 3. context sensitive but not context free 4. type-0 but not context sensitive	2.0
1011	The length of the shortest string NOT in the language (over Σ = {a, b}) of the following regular expression is _____. `a*b*(ba)*a*`	1. 2 2. 3 3. 4 4. 5	2.0
1012	The length property belongs to which of the following objects?	1.Window 2.Element 3.History 4.Document	2.0
1013	The levels of hierarchy in inheritance helps to handle	1.flexibility 2.complexity 3.detailed information 4.security	4.0

S.NO.	Questions	Choices	Answers
1014	The lexical analysis for a modern language such as Java needs the power of which one of the following machine models in a necessary and sufficient sense?	1. Deterministic pushdown automata 2. Finite state automata 3. Non-deterministic pushdown automata 4. Turing machine	2.0
1015	The library function used to find the last occurrence of a character in a string is	1.strnstr() 2.laststr() 3.strrchr() 4.strstr()	3.0
1016	The linear sequential model of software development is	1. A reasonable approach when requirements are well defined. 2. A good approach when a working program is required quickly. 3. The best approach to use for projects with large development teams. 4. An old fashioned model that cannot be used in a modern context.	1.0
1017	The linear sequential model of software development is also known as the	1. Classical life cycle model 2. Spiral model 3. Waterfall model 4. Incremental Model	3.0
1018	The load instruction is mostly used to designate a transfer from memory to a processor register known as____.	1. Accumulator 2. Instruction Register 3. Program counter 4. Memory address Register	1.0
1019	The main purpose of a data link content monitor is to	1.detect problems in protocols 2.determine the type of switch used in a data link 3.determine the flow of data 4.determine the type of switching used in data link	1.0
1020	The maximum number of superkeys for the relation schema R(E,F,G,H) with E as the key is	1. 7 2. 8 3. 9 4. 6	2.0

S.NO.	Questions	Choices	Answers
1021	The maximum size of payload field in ethernet frame is	1. 1000 bytes 2. 1200 bytes 3. 1300 bytes 4. 1500 bytes	4.0
1022	The maximum window size for data transmission using the selective reject protocol with n-bit frame sequence numbers is:	1. 2^n 2. 2^(n-1) 3. 2^n – 1 4. 2^(n-2)	2.0
1023	The MC 1488 is	1. TTL to RS 232C Level converter 2. RS-232 to TTL level converter 3. Bidirectional Level converter 4. Unidirectional level converter	1.0
1024	The mechanism that bring a page into memory only when it is needed is called _____	1. Segmentation 2. Fragmentation 3. Demand Paging 4. Page Replacement	3.0
1025	The members of a class, by default, are	1.private 2.protected 3.public 4.mandatory to specify	3.0
1026	The memory unit that communicates directly with the CPU is called the	1. main memory 2. Secondary memory 3. shared memory 4. auxiliary memory	1.0
1027	The microprocessor can read/write 16 bit data from or to _____	1. memory 2. I /O device 3. processor 4. register	1.0

S.NO.	Questions	Choices	Answers
1028	The microprocessor determines whether the specified condition exists or not by testing the _____	1. carry flag 2. conditional flag 3. common flag 4. sign flag	2.0
1029	The minimum number of arithmetic operations required to evaluate the polynomial P(X) = X^5 + 4X^3 + 6^X + 5 for a given value of X using only one temporary variable is.	1.6 2.9 3.8 4.7	4.0
1030	The minimum number of arithmetic operations required to evaluate the polynomial P(X)=X^5+4X^3+6^X+5 for a given value of X using only one temporary variable.	1.6 2.7 3.8 4.9	2.0
1031	The minimum number of nodes in a binary tree of depth d (root at level 0) is	1.2d - 1 2.d + 1 3.2d + 1 - 1 4.d	2.0
1032	The MMU (Memory Management Unit) is a	1. Hardware 2. Software 3. Firmware 4. Malware	1.0
1033	The nature of collaboration is such that all system requirements are defined by consensus of a committee of customers and developers.	1. TRUE 2. FALSE 3. 4.	2.0
1034	The node type for document returns the value ---.	1.2 2.9 3.3 4.8	4.0
1035	The number of auxiliary memory required for a Push Down Machine (PDM) to behave like a Finite State Machine (FSM) is	1. 0 2. 2 3. 4 4. 1	1.0
1036	The number of clock pulses needed to shift one byte of data from input to the output of a 4-bit shift register is.	1.10 2.12 3.16 4.32	3.0
1037	The number of components in a graph with n nodes and 1 edge are	1.n 2.n-2 3.n-1 4.n-3	3.0
1038	The number of components in a graph with n nodes and 1 edge are	1.n 2.n-2 3.n-1 4.n-3	3.0
1039	The number of counters available in internal block diagram of 8253 is	1.2 2.1 3.3 4.4	3.0
1040	The number of states in DFA is --------than the number of states in NFA for the same Language.	1. Greater 2. less 3. greater equal 4. equal	2.0
1041	The number of tokens in the following C statement is printf("i = %d, &i = %x", i, &i);	2.0	4.0
1042	The operation of processing each element in the list is known as	1.Sorting 2.Merging 3.Inserting 4.Traversal	4.0
1043	The other name for MODE 0 in 8253 timer is	1.software triggered strobe 2.Programmable one shot 3.Interrupt on terminal count 4.Square wave rate generator	3.0

S.NO.	Questions	Choices	Answers
1044	The physical layer concerns with	1. bit-by-bit delivery 2. process to process delivery 3. application to application delivery 4. Hop by hop delivery	1.0
1045	The physical layer is responsible for	1. line coding 2. channel coding 3. modulation 4. all of the mentioned	4.0
1046	The physical layer translates logical communication requests from the _____ into hardware specific operations.	1. data link layer 2. network layer 3. trasnport layer 4. application layer	1.0
1047	The pop() method of the array in javascript does which of the following task ?	1. decrements the total length by 1 2. increments the total length by 1 3. prints the first element but no effect on the length 4. don't return the value of deleted element	1.0
1048	The portion of physical layer that interfaces with the media access control sublayer is called	1. physical signalling sublayer 2. physical data sublayer 3. physical address sublayer 4. none of the mentioned	1.0
1049	The postfix expression for * + a b - c d is?	1.ab + cd - * 2.ab + cd * - 3.ab + - cd * 4.ab cd + - *	1.0
1050	The postfix form of the expression (A+ B)*(C*D- E)*F / G is	1.AB + CD* E - *F *G / 2.AB + CD* E - F **G / 3.AB+ CD*E - FG /** 4.AB + CDE * - * F *G /	3.0
1051	The preorder traversal sequence of a binary search tree is 30,20,10,15,25,23,39,35,42. Which one of the following is the postorder traversal sequence of the same tree?	1.10,20,15,23,25,35,42,39,30 2.15,10,25,23,20,42,35,39,30 3.15,20,10,23,25,42,35,39,30 4.15,10,23,25,20,35,42,39,30	4.0

S.NO.	Questions	Choices	Answers
1052	The process of retaining data for future use is called	1. reading 2. writing 3. storing 4. coding	3.0
1053	The project planner examines the statement of scope and extracts all important software functions which is known as	1. Association 2. Decomposition 3. Planning process 4. ALL	3.0
1054	3.0	1. Another name for component-based development. 2. Another name for component-based development. 3. A high speed adaptation of the linear sequential model. 4. ALL	4.0
1055	The RDBMS terminology for a row is	1.attribute 2.relation 3.degree 4.tuple	4.0
1056	The recognizing capabilities of NDFSM and DFSM	1. may be different 2. must be different 3. must be same 4. none of the mentioned	3.0
1057	The relational model uses some unfamiliar terminology. A tuple is equivalence to a:	1.record 2.field 3.file 4.database	1.0
1058	The removal of process from active contention of CPU and reintroduce them into memory later is known as _____	1. Interrupt 2. Swapping 3. Signal 4. Thread	2.0
1059	The restriction while using the binary search is ?	1.List should be small in number 2.List should be large in number 3.List should be sorted 4.No restriction	3.0
1060	The result evaluating the postfix expression (10 5 + 60 6 / * 8 –) is	1.284 2.142 3.213 4.71	2.0
1061	The searching technique that takes O (1) time to find a data is	1.Binary Search 2.Linear Search 3.Tree Search 4.Hashing	4.0

S.NO.	Questions	Choices	Answers
1062	The segment number S is legal if	1. S < STBR 2. S > STBR 3. S < STLR 4. S > STLR	3.0
1063	The simplest image processing technique is	1.coordinates transformation 2.intensity transformation 3.spatial transformation 4.domain transformation	1.0
1064	The situation when in a linked list START=NULL is	1.overflow 2.underflow 3.housefull 4.saturated	2.0
1065	The smallest element of an array's index is called its	1.lower bound 2.range D. extract 3.upper bound 4.ion	1.0
1066	The smallest finite automation which accepts the language {x | length of x is divisible by 3} has :	1. 2 states 2. 3 states 3. 4 states 4. 5 states	3.0
1067	The space factor when determining the efficiency of algorithm is measured by	1.Counting the average memory needed by the algorithm 2.Counting the minimum memory needed by the algorithm 3.Counting the maximum memory needed by the algorithm 4.Counting the maximum disk space needed by the algorithm	3.0
1068	4.0	1. Ends with the delivery of the software product 2. Is not more chaotic than the incremental model 3.Do not Include project risks evaluation during each iteration 4.Includes feasibility risks	2.0
1069	The spiral model was originally proposed by	1. IBM 2. Barry Boehm 3. Pressman 4. Royce	2.0
1070	The SQL BETWEEN operator	1. Specifies a range to test 2. specifies between which tables the data is present 3. specifies the columns between which columns the data is present 4. None of the options	1.0
1071	The starting address for counter 0 of 8253 is 0038H, then port address for control word register is	1.44H 2.49H 3.42H 4.46H	3.0

S.NO.	Questions	Choices	Answers
1072	The state diagram	1. depicts relationships between data objects 2. depicts functions that transform the data flow 3. indicates how data are transformed by the system 4. indicates system reactions to external events	1.0
1073	The status that cannot be operated by direct instructions is	1.Z 2.Cy 3.P 4.AC	4.0
1074	The stream insertion operator should be overloaded as	1.friend functions 2.member function 3.non member functions 4.static functions	4.0
1075	The stream insertion operator should be overloaded as	1.friend functions 2.member function 3.non member functions 4.static functions	4.0
1076	The switching method fixes the path from source to destination is _____	1.circuit switching 2.Message Switching 3.Packet switching 4.Frame Relay	1.0
1077	The syntax of Eval is _____	1.[objectName.]eval(numeriC) 2.[objectName.]eval(string) 3.[EvalName.]eval(string) 4.[EvalName.]eval(numeriC)	2.0
1078	The system engineering process usually begins with the	1. detailed view 2. domain view 3. 4.0element view 4. world view	1.0
1079	1.0	1. Function, performance and constraints of a computer-based system 2. implementation of each allocated system 3. element software architecture 4.time required for system simulation	3.0
1080	The tightest upper bound for the worst case performance of quicksort implemented on an array of n elements by always chosing the pivot as the central element is	1.T(n! logn) 2.O(n logn) 3.O(n^2) 4.O(n^3)	3.0
1081	The time complexity to build a heap with a list of n numbers is	1.O(n logn) 2.O(n) 3.O(log n) 4.O(n2)	2.0
1082	The topology with highest reliability is	1.ring topology 2.star topology 3.bus topology 4.mesh topology	4.0
1083	The total number of pins for the IC 8255 is	1. 28 2. 40 3. 30 4. 20	2.0
1084	The two statements that can be used to change the flow of control are	1.switch and do-while 2.if and while 3.if and switch 4.break and continue	3.0
1085	The UNION SQL clause can be used with…	1. none of the options 2. the SELECT clause only 3. the UPDATE clause only 4. the DELETE and UPDATE clauses	2.0

S.NO.	Questions	Choices	Answers
1086	The use of traceability tables helps to	1. debug programs following the detection of run-time errors 2. determine the performance of algorithm implementations 3. identify, control, and track requirements changes 4.Analyze design changes	3.0
1087	The value in AL=11011010 after the operation of CBW, the result is	1.AX=1101 1010 1111 1111 2.AX=1101 1010 0000 0000 . 3.AX=1111 1111 1101 1010 4.AX=0000 0000 1101 1010	3.0
1088	The virtual file system provides us the following	1. Object oriented file implementation 2. Structured programming file implementation 3. Linked file allocation 4. Indexed file allocation	2.0
1089	The work of EU is _____	1. encoding 2. decoding 3. processing 4. calculations	3.0
1090	2.0	1. size of the budget 2. size of the product being built 3. software process being used 4. stakeholders needs	3.0
1091	The worst case running time to search for an element in a balanced binary search tree with n*2^n elements is	1.theta(n log n) 2.theta(n*2^n) 3.theta(n) 4.theta(log n)	3.0
1092	The worst case running time to search for an element in a balanced in a binary search tree with n*2^n elements is	1.theta(n log n) 2.theta(n*2^n) 3.theta(n) 4.theta(log n)	3.0
1093	There are n stations in a slotted LAN. Each station attempts to transmit with a probability p in each time slot. What is the probability that only one station transmits in a given time slot?	1. (1-p)^(n-1) 2. np(1-p)^(n-1) 3. p(1-p)^(n-1) 4. 1-(1-p)^(n-1)	2.0
1094	There is no connection setup phase in _____	1.Frame relay 2.Virtual Circuit Switching 3.Datagram 4.ATM	3.0
1095	Thrashing occurs _____	1. when excessive swapping takes place 2. when you thrash your computer 3. whenever deadlock occurs 4. when no swapping takes place	1.0

S.NO.	Questions	Choices	Answers
1096	Thresholding function in contrast stretching creates	1.binary image 2.high quality image 3.low quality image 4.enhanced image	1.0
1097	To create an alias Objects have to be passed by	1.address 2.reference 3.value 4.field by field	2.0
1098	To Delete an item from a Queue identify the correct set of statements	1.Q[REAR] = item; REAR ++ 2.item = Q[FRONT]; FRONT++ 3.item = Q[REAR]; FRONT ++ 4.item = Q[FRONT]; REAR ++	2.0
1099	To determine the architectural style or combination of styles that best fits the proposed system, requirements engineering is used to uncover	1. algorithmic complexity 2. characteristics and constraints 3. control and data 4. design patterns	2.0
1100	To interface memory with the microprocessor, connect register the lines of the address bus must be added to address lines of the _____ chip.	1. single 2. memory 3. multiple 4. triple	2.0
1101	To operate correctly, starting a ring counter requires	1.presetting all the flip-flops 2.clearing one flip-flop and presetting all the others 3.presetting one flip-flop and clearing all the others 4.clearing all the flip-flops	1.0
1102	Today the increased power of the personal computer has brought about an abandonment of the practice of team development of software	1. True 2. false 3. 4.	1.0
1103	Trigger is a	1.Statement that enables to start any DBMS 2.Statement that is executed by the user when debugging an application program 3.Statement that is executed automatically by the system as a side effect of a modification to the database 4.Condition the system tests for the validity of the database user	3.0
1104	Two computers C1 and C2 are configured as follows. C1 have IP address as 203.197.2.53 and netmask 255.255.128.0. C2 have IP address as 203.197.75.201 and netmask 255.255.192.0. Which one of the following statements is true?	1. C1 and C2 both assume they are on the same network 2. C2 assumes C1 is on same network, but C1 assumes C2 is on a different network 3. C1 assumes C2 is on same network, but C2 assumes C1 is on a different network 4. C1 and C2 both assume they are on different networks.	3.0
1105	Two sets of functional dependencies E and F are equivalent if E+ = F+ .This statement is	1. True 2. False 3. Cant Say 4.	1.0
1106	Updating a database means	1.deleting database 2.modifying or adding record occurrences 3.revising the file structure 4.reorganizing the database	2.0

S.NO.	Questions	Choices	Answers
1107	Usability questionnaires are most meaningful to the interface designers when completed by	1. customers 2. 3.0experienced programmers 3. product users 4. project managers	2.0
1108	Using linked list node representation, inserting a node in general tree is performed efficently	1.not possible 2.by merging with an existing node 3.after introducing a new link 4.after converting to binary tree	2.0
1109	Using the 8259A, the INT input of the 8086 can be expanded to accomodeate up to ---------- prioritized interrupt inputs	1.60 2.64 3.16 4.32	2.0
1110	Usually a pure virtual function	1.Will be called only to delete an object 2.Is defined only in derived class 3.Will never be called 4.Has complete function body	2.0
1111	Virtual memory is the portion of _____.	1. RAM 2. Cache Memory 3. Hard Disc 4. None of these	3.0
1112	Voice privacy in GSM cellular telephone protocol is provided by	1. A5/2 cipher 2. b5/4 cipher 3. b5/6 cipher 4. b5/8 cipher	1.0
1113	VOLATILE MEMORY IS _____ ?	1.COMPACT DISK 2.HARD DISK 3.RANDOM ACCESS MEMORY 4.READ ONLY MEMORY	3.0
1114	1.0	1. architecture, interface, component 2. cost, risk, schedule 3. Information, function, behavior 4. NONE	1.0
1115	What assess the risk and your plans for risk mitigation and revise these when you learn more about the risk?	1. Risk monitoring 2. Risk planning 3. Risk analysis 4. Risk identification	1.0

S.NO.	Questions	Choices	Answers
1116	What characteristic of RAM memory makes it not suitable for permanent storage?	1. too slow 2. unreliable 3. it is volatile 4. too bulky	3.0
1117	What do the 'c' and 'v' in argv stands for?	1.'c' means argument count 'v' means argument vector 2.'c' means argument count 'v' means argument vertex 3.'c' means argument configuration 'v' means argument visibility 4.'c' means argument control 'v' means argument vector	1.0
1118	What does /[^(]* regular expression indicate ?	1.Match one or more characters that are not open paranthesis 2.Match zero or more characters that are open paranthesis 3.Match zero or more characters that are not open paranthesis 4.Match one or more characters that are open paranthesis	2.0
1119	What does explode function in php do	1.Used to convert a string to an array 2.Used to split a given string into the number of chunks specified 3.Used to split a string by a string 4.Used to split string into two equal halves	1.0
1120	What does microprocessor speed depends on	1.Clock 2.Address bus width 3.Data bus width 4.Size of register	2.0
1121	What does parseFloat(9+10) evaluates to in JavaScript?	1.19 2.910 3.9109 4.91	1.0
1122	What does the following declaration mean? int (*ptr)[10];	1.ptr is array of pointers to 10 integers 2.ptr is a pointer to an array of 10 integers 3.ptr is an array of 10 integers 4.ptr is an pointer to array	2.0
1123	What elements will the following script output? <?php $array = array (true => 'a', 1 => 'b'); var_dump ($array); ?>	1. 1 => 'b' 2. True => 'a', a => 'b' 3. NULL 4. 0 => 'a', 1 => 'b'	3.0
1124	What gets printed? $str = 'a\\b\n'; echo $str;	1.ab(newline) 2.a\b(newline) 3.a\b\n 4.a\\b(newline)	3.0
1125	What happens if no file path is given in include() function?	1.PHP continues to execute the script. 2.Results in a fatal error 3.Include_path is made use of 4.It haults the script.	3.0
1126	What is a Software ?	1. Software is set of programs 2. Software is documentation and configuration of data 3. Software is set of programs and Software is documentation and configuration of data 4. Software is a set of documents.	3.0
1127	What is asynchronous counter.	1.none of them 2.A master clock triggers all the flip-flops at a time 3.all the flip-flop are combined to common clock 4.each flip-flop has it own clock	4.0
1128	What is data encryption standard (DES)?	1. block cipher 2. stream cipher 3. bit cipher 4. none of the mentioned	1.0

S.NO.	Questions	Choices	Answers
1129	What is interframe gap?	1. idle time between frames 2. idle time between frame bits 3. idle time between packets 4. none of the mentioned	1.0
1130	What is meant by parallel-loading the register?	1.Shifting the data in all flip-flops simultaneously 2.Loading data in two of the flip-flops 3.Loading data in all flip-flops at the same time 4.Momentarily disabling the synchronous SET and RESET inputs	3.0
1131	What is the best case for linear search	1.O(n) 2.O(1) 3.O(log n) 4.O(2n)	2.0
1132	What is the code to start displaying the time when document loads?	1.onload = displayTime; 2.window. = displayTime; 3.window.onload = displayTime; 4.window.onload = start;	3.0
1133	What is the condition for resetting(s=0) the S flag in status register?	1.MSB of the result is One 2.MSB of the result is zero 3.LSB of the result is one 4.LSB of the result is zero	2.0
1134	What is the correct CSS syntax for making all the elements bold?	1.p {font-weight:bold;} 2.p style="text-size:bold" 3.p {text-size:bold} 4.p style="font-size:bold">	1.0
1135	What is the correct way to connect to a MySQL database?	1.mysqli_db(host,username,password,dbname); 2.mysqli_connect(host,username,password,dbname); 3.mysqli_open(host,username,password,dbname); 4. mysqli_connect(,,)	2.0
1136	What is the data structures used to perform recursion?	1.list 2.queue 3.stack 4.Tree	3.0
1137	What is the default execution time set in set_time_limit()?	1.20 secs 2.30 secs 3.40 secs 4.50 secs	2.0
1138	What is the default size of a file set in upload_max_filesize ?	1.1 MB 2.2 MB 3.2.5 MB 4.3 MB	2.0
1139	What is the difference between echo and print?	1.They both behave the same. 2.Print can take multiple parameters where as echo cannot 3.Echo can take multiple parameters where as print cannot 4.Print is a function where as echo is not.	3.0
1140	What is the following style an example of? img[alt~="Pie"]	1.Attribute Match 2.Exact Value Match 3.Contains Value Match 4.Subcode Match	3.0
1141	What is the highest normal form level satisfied by the following table design? R= {A1,A2,A3,A4,A4} F={A1-> A3, A3->A4}Key ={A1,A2}	1. 1 NF 2. 2 NF 3. 3 NF 4. BCNF	2.0
1142	What is the maximum number of reduce moves that can be taken by a bottom-up parser for a grammar with no epsilon- and unit-production (i.e., of type A -> ϵ and A -> a) to parse a string with n tokens?	1. n/2 2. n-1 3. 2n-1 4. 2^n	2.0
1143	What is the maximum size of data that the application layer can pass on to the TCP layer below?	1. Any size 2. 2^16 bytes-size of TCP header 3. 2^16 bytes 4. 1500 bytes	1.0
1144	What is the minimum number of NAND gates required to implement A + AB` + AB`C?	1.0 2.1 3.2 4.3	1.0
1145	What is the most essential purpose of paranthesis in regular expressions?	1.Define pattern matching techniques 2.Define subpatterns within the complete pattern 3.Define portion of strings in the regular expression 4.All of the mentioned	2.0

S.NO.	Questions	Choices	Answers
1146	what is the need of segmenting the memory in 8086	1.Increase the memory accessibility 2.Increase the memory addressibility 3.easy to retrieve data 4.faster access	2.0
1147	What is the normal order of activities in which traditional software testing is organized? a. integration testing b. system testing c. unit testing d.validation testing	1. a, d, c, b 2. b, d, a, c 3. 3.0c, a, d, b 4. d, b, c, a	1.0
1148	What is the order of the stages in the waterfall mode?	1. Requirements Definition, System & Software Design, Implementation & Unit Testing, Integration & System Testing, Operation & Maintenance. 2. Requirements Definition, Integration & System Testing, System & Software Design, Implementation & Unit Testing, Operation & Maintenance. 3. System & Software Design, Requirements Definition, Operation & Maintenance, Implementation & Unit Testing, Integration & System Testing. 4. Implementation & Unit Testing, Requirements Definition, System & Software Design, Integration & System Testing, Operation & Maintenance.	1.0
1149	what is the output for the following function? LPAD(salary,10,'*')	1. 10***24000 2. *****24000 3. 24000***** 4. error	2.0
1150	What is the output? #include <stdio.h> void main() { int a=3,b=2; a=a==b==0; printf("%d,%d",a,b); }	1. 1,2 2. 3,2 3. 0,0 4. 2,3	1.0
1151	What is the purpose of $_SESSION[]?	1. Used to register a global variable 2. Used to initialize a session 3. Used to store variables of the current session 4. Used to initialize a cookie	3.0
1152	What is the result of the following code snippet? window.location === document.location	1.False 2.True 3.0 4.1	2.0
1153	What is the strpos() function used for?	1.Find the last occurrence of the string within a string 2.Find the first occurrence of the string within a string 3.Find both last and first occurence 4.Search for all occurrence within a string	2.0
1154	What is the time complexity for binary search	1.O(log n) 2.O(n^2) 3.O(1) 4.O(2n)	1.0
1155	What is the time complexity for insertion sort	1.O(log n) 2.O(n) 3.O(n^2) 4.O(1)	3.0
1156	What is the worst case for Selection sort	1.O(log n) 2.O(2n) 3.O(n) 4.O(n^2)	4.0

S.NO.	Questions	Choices	Answers
1157	What is Wired Equivalent Privacy(WEP)?	1. security algorithm for ethernet 2. security algorithm for wireless networks 3. security algorithm for USB 4. None	2.0
1158	What is WPA?	1. wi-fi protected access 2. wired protected access 3. wired process access 4. wi-fi process access	1.0
1159	What is x+ mode in fopen() used for?	1. Read/Write. Creates a new file. Returns FALSE and an error if file already exists 2. Write only. Creates a new file. Returns TRUE and an error if file already exists 3. Read/Write. Opens and clears the contents of file 4. Write. Opens and clears the contents of file	1.0
1160	What keyword covers unhandled possibilities?	1.other 2.default 3.contingency 4.all	2.0
1161	What kind of schema it is? ***Student(sid, sname, dob, address, pincode)***	1.Relaional 2.Logical Schema 3.Conceptual Schema 4.External View	1.0
1162	What library do you need in order to process images?	1. GD library 2. ZIP library 3. Win32 API library 4. BOGUS library	1.0
1163	What type of declaration is this: unsigned num;	1. num is unsigned integer 2. num is unsigned float 3. num is unsigned character 4. Invalid declaration	4.0
1164	What type of register would shift a complete binary number in one bit at a time and shift all the stored bits out one bit at a time?	1.PIPO 2.PISO 3.SIPO 4.SISO	4.0

S.NO.	Questions	Choices	Answers
1165	What will be the output? #include <stdio.h> int main() { extern int ok; printf("value of ok = %d",ok); return 0; } extern int ok=1000;	1. Declaration Error 2. value of ok = 1000 3. value of ok = 0 4. Linking Error	2.0
1166	What will be the result of the expression 13 & 25	1.25 2.38 3.9 4.12	3.0
1167	What will be the status of a computer during storage compaction	1. High paging activity 2. Thrasing happens 3. Working set model developed 4. It will sit idle	4.0
1168	What will happen if the first argument of open() is omitted?	1.Error Page 2.Remains in the same page 3.about:blank 4.Open the first page in the history	3.0
1169	What will the following script output? <?php $array = array (1, 2, 3, 5, 8, 13, 21, 34, 55); $sum = 0; for ($i = 0; $i < 5; $i++) { $sum += $array[$array[$i]]; } echo $sum; ?>	1. 78 2. 19 3. NULL 4. 5	1.0
1170	What would be the output of the below code fragment? var a = ["s","a","v","e"]; document.write(a.join(""));	1.Undefined 2.save 3.vase 4.S	2.0
1171	1.0	1. true 2. false 3. 4.	1.0
1172	When a new row is inserted the constraints that can be violated are	1. Primary Key constraint 2. Referential Integrity Constraint 3. all of the options 4. Domain Constraint	1.0
1173	When a single item that triggers other data flow along one of many paths of a data flow diagram, _____ characterizes the information flow.	1. 3.0high coupling 2. poor modularity 3. transaction flow 4. transform flow	1.0

S.NO.	Questions	Choices	Answers
1174	When displaying a web page, the application layer uses the	1. HTTP protocol 2. FTP protocol 3. SMTP protocol 4. IMAP Protocol	1.0
1175	When operated in slave mode, the PIC outputs its type number only if the cascaded address received on CAS0-CAS2 matches the address programmed in --------- bits D0-D2	1.ICW1 2.ICW2 3.ICW3 4.ICW4	4.0
1176	When the overall flow in a segment of a data flow diagram is largely sequential and follows straight-line paths, _____ is present.	1. 4.0low coupling 2. good modularity 3. transaction flow 4. transform flow	3.0
1177	When the pre-order and post-order traversal of a Binary Tree generates the same output, the tree can have maximum	1.Three nodes 2.Two nodes 3.One node 4.Any number of nodes	3.0
1178	When there are infinite distinguishable strings then there cannot be a ----------	1. automata 2. finite automata 3. regular expression 4. both finite automata and regular expression	2.0
1179	When there is an indefinite or an infinity value during an arithmetic value computation, javascript	1. Prints an exception error 2. Prints an overflow error 3. Displays “Infinity” 4. Prints the value as such	3.0
1180	When used with the datalist element, what is the list attribute in HTML5 used to accomplish?	1.Local databases 2.Drop down lists 3.Autocompletion 4.Global Databases	3.0
1181	When we concatenate two languages L1 and L2 recognized by machine M1 and M2 we obtain a machine with final state same as that of _____	1. M2 2. M1 and M2 3. M1 4. M1 or M2	2.0
1182	when you were asked to design a relation, you come across a situation, where passport number is to be included for the people. All the students wont be having passport. So what constraint you would be using?	1. Primary Key 2. Not Null 3. Default 4. Unique	4.0

S.NO.	Questions	Choices	Answers
1183	Which of the following is shared between all of the threads in a process? Assume a kernel level thread implementation	1. Register values 2. File descriptors 3. Scheduler priority 4. Local variables	2.0
1184	Which buffer is a parallel to serial converter that receives a parallel byte for conversion into a serial signal and further transmission onto the communication channel.	1.Transmit buffer 2.Receive buffer 3.Data bus buffer 4.Modem control	1.0
1185	Which character function can be used to return a specified portion of a character string?	1. INSTR 2. SUBSTRING 3. SUBSTR 4. POS	3.0
1186	Which command we use to set an image on background?	1.image-background:url('R4R_Logo.jpg') 2.background-image:url('R4R_Logo.jpg') 3.bg-image:url('R4R_Logo.jpg') 4.background-image:href('R4R_Logo.jpg')	2.0
1187	Which Data structure is best suited for the UNDO operation in Windows	1.Both Stack and Queues 2.Queues 3.Stack 4.Arrays	3.0
1188	Which database level is closest to the users?	1. External 2. Conceptual 3. Internal 4. Physical	1.0
1189	Which date function is used to obtain the date of next Wednesday	1. NEXT_DAY 2. LAST_DAY 3. NEXT_DATE 4. All of the options	3.0
1190	4.0	1. Architectural design 2. Component-level design 3. Data design 4. Interface design	3.0

S.NO.	Questions	Choices	Answers
1191	Which directory implementation is used in most of the Operating Systems?	1. Single level directory structure 2. Two level directory structure 3. Tree directory structure 4. Acyclic directory structure	3.0
1192	Which directory implementation method creates more dangling pointers?	1. Single level directories 2. Two level directories 3. Tree Structured Diretories 4. Acyclic graph directories	4.0
1193	Which element is used to draw graphics images on a web page?	1.script 2.audio 3.embed 4.canvas	4.0
1194	Which granularity level of testing checks the behavior of module cooperation?	1. Unit Testing 2. Integration Testing 3. Acceptance Testing 4. Regression Testing	2.0
1195	Which header file should be included to use functions like malloc() and calloc()?	1.string.h 2.dos.h 3.memory.h 4.stdlib.h	4.0
1196	Which Instruction word is used to specify the number of stop bits, data bits, parity bit and the baud rate clock factor for the 8251A USART	1.Mode 2.Command followed by Mode 3.Command 4.Mode followed by command	4.0
1197	Which is a major problem with SQL?	1. SQL cannot support object-orientation 2. The same query can be written in many ways, each with vastly different execution plans. 3. SQL syntax is too difficult for non-computer professionals to use 4. SQL creates excessive locks within the database	2.0
1198	Which is not related to deadlock avoidance?	1. Safe State 2. Unsafe State 3. Safe Sequence 4. Resource sequence	3.0

S.NO.	Questions	Choices	Answers
1199	Which is one of the most important stakeholder from the following ?	1. Entry level personnel 2. Middle level stakeholder 3. Managers 4. Users of the software	4.0
1200	Which is the correct way to write a JavaScript array?	1. var txt = new Array(1:"tim",2:"kim",3:"jim") 2. var txt = new Array:1=("tim")2=("kim")3=("jim") 3. var txt = new Array("tim","kim","jim") 4. var txt = new Array="tim","kim","jim"	3.0
1201	Which is used to store critical pieces of data during subroutines and interrupts	1. Stack 2. Queue 3. Accumulator 4. Data register	1.0
1202	Which item is an example of a physical network address?	1.IP address 2.MAC address 3.Workstation name 4.www.proprofs.com	2.0
1203	Which JavaScript function is most useful for finding errors?	1.Confirm 2.Prompt 3.Debug 4.Alert	3.0
1204	Which method bypasses the CPU for certain types of data transfer?	1. Software interrupts 2. Interrupt-driven I/O 3. Polled I/O 4. Direct memory access (DMA)	4.0
1205	Which method is used for loading the driver in Java JDBC.	1. getDriver() method 2. class.forName() 3. createStatement() 4. getConnection()	1.0
1206	Which method is used to search for a substring?	1. stringVariable.substring(subString) 2. stringVariable.find(subString) 3. stringVariable.indexOf(subString) 4. stringVariable.indexOf(charAt(0))	3.0

S.NO.	Questions	Choices	Answers
1207	Which model can be selected if user is involved in all the phases of SDLC?	1. Waterfall Model 2. Prototyping Model 3. RAD Model 4. Prototyping Model and RAD model	3.0
1208	3.0	1. design model 2. implementation model 3. user model 4. client model	2.0
1209	Which multiple access technique is used by IEEE 802.11 standard for wireless LAN?	1. CDMA 2. CSMA/CA 3. ALOHA 4. CSMA/CD	2.0
1210	Which of the below given sorting techniques has highest best-case runtime complexity?	1.bubble sort 2.insertion sort 3.quick sort 4.selection sort	3.0
1211	Which of the following (in file scope) leads to a compile-time error?	1.const int a=90; 2.const int f1() { return 100; } 3.int f2() const { return 200; } 4.const int f3(const int i) { return 300;}	3.0
1212	Which of the following activities is not one of the four things that need to be accomplished by the generic planning task set?	1. 3.0Develop overall project strategy 2. Identify the functionality to deliver in each software increment 3. Create a detailed schedule for the complete software project 4. Devise a means of tracking progress on a regular basis	4.0
1213	Which of the following addressing modes are suitable for program relocation at run time? 1. Absolute addressing 2. Based addressing 3. Relative addressing 4. Indirect addressing	1. 1 and 4 2. 1 and 2 3. 2 and 3 4. 1,2 and 4	4.0
1214	Which of the following algorithm design technique is used in the quick sort algorithm?	1.Greedy method 2.Backtracking 3.Divide and conquer 4.Dynamic programming	3.0
1215	Which of the following algorithm is Minimum Spanning Tree in graph	1.Dijiktra's algorithm 2.AVL Tree algorithm 3.Kruskal's algorithm 4.Merge algorithm	3.0
1216	Which of the following algorithm is used to find the shortest path between two nodes in graph	1.Dijiktra's algorithm 2.Prim's algorithm 3.Kruskal's algorithm 4.Merge algorithm	1.0

S.NO.	Questions	Choices	Answers
1217	Which of the following are decidable? I. Whether the intersection of two regular languages is infinite II. Whether a given context-free language is regular III. Whether two push-down automata accept the same language IV. Whether a given grammar is context-free	1. I and II 2. I and IV 3. II and III 4. I and III	3.0
1218	Which of the following attribute is needed for file upload via form?	1. enctype='multipart/form-data' 2. enctype='singlepart/data' 3. enctype='file' 4. enctype='form-data/file'	1.0
1219	Which of the following can be a valid column name?	1. Column 2. 1966_Invoices 3. Catch_#22 4. #Invoices	3.0
1220	Which of the following can't be done with client-side JavaScript?	1.Validating a form 2.Sending a form's contents by email 3.Storing the form's contents to a database file on the server 4.Testing the form	3.0
1221	Which of the following case does not exist in complexity theory?	1.Average case 2.Worst case 3.Best case 4.Null case	4.0
1222	Which of the following command words need to be programmed to operate a single PIC in fully nested mode with an 8086 microprocessor	1.ICW1 and ICW2 2.ICW1, ICW2 and ICW4 3.ICW2 and ICW3 4.ICW1 and ICW4	2.0
1223	Which of the following correctly describes C++ language?	1.Statically typed language 2.Dynamically typed language 3.Both Statically and dynamically typed language 4.Type-less language	4.0
1224	Which of the following describes a handle (as applicable to LR-parsing) appropriately?	1. It is the position in a sentential form where the next shift or reduce operation will occur 2. It is non-terminal whose production will be used for reduction in the next step 3. It is a production that may be used for reduction in a future step along with a position in the sentential form where the next shift or reduce operation will occur 4. It is the production p that will be used for reduction in the next step along with a position in the sentential form where the right hand side of the production may be found	4.0
1225	Which of the following explains cookies nature?	1.Non Volatile 2.Volatile 3.Intransient 4.Transient	4.0
1226	Which of the following file access method needs a relative block number 'n'?	1. Contiguous allocation 2. Linked allocation 3. Direct access 4. Sequential access	3.0

S.NO.	Questions	Choices	Answers
1227	Which of the following function is used to terminate the script execution in PHP?	1. break() 2. quit() 3. die() 4. exit()	3.0
1228	Which of the following function sets first n characters of a string to a given character?	1.strset() 2.strnset() 3.strinit() 4.strcset()	2.0
1229	Which of the following grammar rules violate the requirements of an operator grammar ? P, Q, R are nonterminals, and r, s, t are terminals. 1. P → Q R 2. P → Q s R 3. P → ε 4. P → Q t R r	1. 1 and 3 only 2. 1 only 3. 2 and 3 only 4. 1,2,3 and 4 only	1.0
1230	which of the following intermediate language can be used in intermediate code generation?	1.Postfix notation and Three address code 2.Quadraples 3.Triples 4.Infix notation and two address code	1.0
1231	Which of the following is a black box testing strategy?	1. All Statements Coverage 2. Control Structure Coverage 3. Cause-Effect Graphs 4. ALL	3.0
1232	Which of the following is a comparison operator in SQL?	1. = 2. LIKE 3. BETWEEN 4. all of the options	4.0
1233	Which of the following is a dynamic model that shows how the system interacts with its environment as it is used?	1. system context model 2. interaction model 3. environmental model 4. both system context and interaction	2.0

S.NO.	Questions	Choices	Answers
1234	Which of the following is a legal expression in SQL?	1. SELECT NULL FROM EMPLOYEE; 2. SELECT NAME FROM EMPLOYEE; 3. SELECT NAME FROM EMPLOYEE WHERE SALARY = NULL; 4. None of the options	2.0
1235	Which of the following is a problem of file management system?	1. difficult to update 2. lack of data independence 3. data redundancy 4. all options given	4.0
1236	Which of the following is a project scheduling method that can be applied to software development?	1. PERT 2. CPM 3. CMM 4. both PERT and CPM	4.0
1237	Which of the following is a wrong example of network layer	1.X.25 level 2-ISO 2.Source routing and Domains Naming Usenet 3.X.25 packet land protocols (PLP-ISO) 4.Internet protocol (I/P) ARPA NET	1.0
1238	which of the following is an incorrect definition inside a class ?	1.void * operator new(size_t size) { } 2.void * operator new () { } 3.void operator delete(void * ptr) { } 4.int operator ++() { }	2.0
1239	which of the following is an incorrect definition inside a class ?	1.void * operator new(size_t size) { } 2.void * operator new () { } 3.void operator delete(void * ptr) { } 4.int operator ++() { }	2.0
1240	Which of the following is false for cin?	1.It is a class of which stream is an object. 2.Using cin, the data can be read from user's terminal. 3.It represents standard input. 4.It is an object of istream class.	1.0
1241	Which of the following is golden rule for interface design?	1. Place the user in control 2. Reduce the user’s memory load 3. Make the interface consistent 4. ALL	4.0
1242	Which of the following is lowest in memory hierarchy?	1. Cache memory 2. Secondary memory 3. Registers 4. RAM	3.0

S.NO.	Questions	Choices	Answers
1243	Which of the following is not a binary operator in relational algebra?	1. Join 2. Semi-Join 3. Assignment 4. Project	4.0
1244	Which of the following is not a form of memory ?	1. Instruction cache 2. Instruction register 3. Instruction opcode 4. Translation-a-side buffer	3.0
1245	Which of the following is not a property of a transaction?	1. atomicity 2. consistency 3. dirty read 4. durability	4.0
1246	Which of the following is not a SQA plan for a project?	1. evaluations to be performed 2. amount of technical work 3. audits and reviews to be performed 4. documents to be produced by the SQA group	2.0
1247	Which of the following is not a valid attribute of the INPUT tag?	1.TEXT 2.NAME 3.SIZE 4.MAXLENGTH	4.0
1248	Which of the following is NOT a valid PHP comparison operator?	1.!= 2.>= 3.&&& 4.===	3.0
1249	Which of the following is not an example of infrastructure components that may need to be integrated into the software architecture?	1. Communications components 2. Database components 3. 4.0Interface components 4. Memory management components	2.0
1250	Which of the following is not characteristics of a relational database model	1.Complex logical relationships 2.Treelike structure 3.Tables 4.Records	2.0
1251	Which of the following is not considered as a risk in project management?	1. Specification delays 2. Product competition 3. Testing 4. Staff turnover	4.0

S.NO.	Questions	Choices	Answers
1252	Which of the following is not hardware:	1. Magnetic tape 2. Printer 3. VDU terminal 4. Assembler	4.0
1253	Which of the following is not one of Hooker's core principles of software engineering practice?	1. All design should be as simple as possible, but no simpler 2. A software system exists only to provide value to its users. 3. Pareto principle (20% of any product requires 80% of the effort) 4. 3.0Remember that you produce others will consume	3.0
1254	Which of the following is not one of the principles of good coding?	1. Create unit tests before you begin coding 2. 3.0Create a visual layout that aids understanding 3. Keep variable names short so that code is compact 4. Write self-documenting code, not program documentation	4.0
1255	Which of the following is not possible using PHP?	1.Deleting files from the server 2.Redirect a visitor to another page 3.Set the value of the window statusbar 4.Obtain the IP address of a Visitor	4.0
1256	Which of the following is not the attribute of FCB?	1. File permissions 2. Program Counter 3. Access Control List 4. Pointers to file control blocks	4.0
1257	Which of the following is not the characteristic of constructor?	1.They should be declared in the public section. . 2.They do not have return type. 3.They can not be inherited. 4.They can be virtual.	4.0
1258	Which of the following is the best type of module cohesion?	1. Functional Cohesion 2. Temporal Cohesion 3. Functional Cohesion 4. Sequential Cohesion	3.0
1259	Which of the following is the worst type of module coupling?	1. Control Coupling 2. Stamp Coupling 3. External Coupling 4. Content Coupling	3.0

S.NO.	Questions	Choices	Answers
1260	Which of the following is TRUE?	1. Every subset of a regular set is regular. 2. Every finite subset of a non-regular set is regular. 3. Every finite subset of a non-regular set is regular. 4. Infinite union of finite sets is regular.	1.0
1261	Which of the following is true?	1. The complement of a recursive language is recursive. 2. The complement of a recursively enumerable language is recursively enumerable 3. The complement of a recursive language is either recursive or recursively enumerable 4. The complement of a context-free language is context-free	1.0
1262	Which of the following is TRUE?	1. Every relation in 2NF is also in BCNF 2. A relation R is in 3NF if every non-prime attribute of R is fully functionally dependent on every key of R 3. Every relation in BCNF is also in 3NF 4. No relation can be in both BCNF and 3NF	3.0
1263	Which of the following is true?	1. Segmentation is faster than paging 2. Paging is faster than segmentation 3. Pages are unequal sized pieces 4. Segments are equal sized pieces	2.0
1264	Which of the following is useful in traversing a given graph by breadth first search?	1.List 2.Queue 3.Set 4.Stack	2.0
1265	Which of the following is valid reason for collecting customer feedback concerning delivered software?	1. Do not allows developers to make changes to the delivered increment 2. 2.0Delivery schedule can be revised to reflect changes 3. Developers can not identify changes to incorporate into next increment 4.Delivery schedule can't be revised to reflect changes	4.0
1266	Which of the following is/are the DDL statements?	1. Create 2. Drop 3. Alter 4. All of the options	4.0

S.NO.	Questions	Choices	Answers
1267	Which of the following languages are context-free? $L1 = \{a^m b^n a^n b^m \mid m, n \geq 1\}$ $L2 = \{a^m b^n a^m b^n \mid m, n \geq 1\}$ $L3 = \{a^m b^n \mid m = 2n + 1\}$	1.L1 and L2 only 2. L1 and L3 only 3. L3 only 4. L1 only	2.0
1268	Which of the following memory allocation scheme suffers from External fragmentation?	1. Segmentation 2. Pure Demand Paging 3. swapping 4. paging	1.0
1269	Which of the following most certainly implies the need for an entire table to implement?	1. A binary relationship 2. A ternary relationship 3. A recursive relationship 4. An identifying relationship	4.0
1270	Which of the following name does not relate to stacks?	1.FIFO lists 2.LIFO list 3.Push-down lists 4.Piles	1.0
1271	Which of the following operation is used if we are interested in only certain columns of a table?	1. PROJECTION 2. SELECTION 3. UNION 4. JOIN	1.0
1272	Which of the following operator can be overloaded through friend function?	1.-> 2.= 3.( ) 4.*	4.0
1273	Which of the following operators has an associativity from Right to Left?	1.+= 2.== 3.<< 4.<=	3.0
1274	Which of the following pattern is the basis of interaction management in many web-based systems?	1. architecture 2. repository pattern 3. model-view-controller 4. different operating system	3.0
1275	Which of the following problems is undecidable?	1. Membership problem for CFGs 2. Ambiguity problem for CFGs. 3. Finiteness problem for FSAs 4. Equivalence problem for FSAs.	2.0

S.NO.	Questions	Choices	Answers
1276	Which of the following problems is undecidable?	1. Deciding if a given context-free grammar is ambiguous. 2. Deciding if a given string is generated by a given context-free grammar 3. Deciding if the language generated by a given context-free grammar is empty 4. Deciding if the language generated by a given context-free grammar is finite.	1.0
1277	Which of the following process is concerned with analyzing the costs and benefits of proposed changes?	1. Change management 2. Version management 3. System building 4. Release management	1.0
1278	Which of the following property allows you to specify an element's position with respect to the browser window?	1.relative 2.fixed 3.static 4.absolute	1.0
1279	Which of the following risk is the failure of a purchased component to perform as expected?	1. Product risk 2. Project risk 3. Business risk 4. Programming risk	1.0
1280	Which of the following risks are derived from the organizational environment where the software is being developed?	1. People risks 2. Technology risks 3. Estimation risks 4. Organizational risks	4.0
1281	Which of the following risks are derived from the software or hardware technologies that are used to develop the system?	1. Managerial risks 2. Technology risks 3. Estimation risks 4. Organizational risks	2.0
1282	Which of the following statements about queues is incorrect?	1.Queues are first-in, first-out (FIFO) data structures 2.Queues can be implemented using arrays 3.Queues can be implemented using linked lists 4.New nodes can only be added at the front of the queue	4.0
1283	Which of the following statements are true in c++?	1.Class members are public by default. 2.Structures can not have functions as members. 3.Classes can not have data as public members. 4.Structures can have functions	1.0

S.NO.	Questions	Choices	Answers
1284	Which of the following statements are TRUE? I. There exist parsing algorithms for some programming languages whose complexities are less than $O(n^3)$. II. A programming language which allows recursion can be implemented with static storage allocation. III. No L-attributed definition can be evaluated in The framework of bottom-up parsing. IV. Code improving transformations can be performed at both source language and intermediate code level.	1. I and II 2. I and IV 3. III and IV 4. I, II and III	2.0
1285	Which of the following statements best describes the operation of a synchronous up-/down-counter?	1.In general, the counter can be reversed at any point in its counting sequence. 2.The counter can be reversed, but must be reset before counting in the other direction. 3.The counter can count in either direction, but must continue in that direction once started. 4.The count sequence cannot be reversed, once it has begun, without first resetting the counter to zero.	1.0
1286	Which of the following statements explains portabililty in non-functional requirements?	1. It is a degree to which software running on one platform can easily be converted to run on another platform. 2. It can be enhanced by using languages, OS' and tools that are universally available and standardized. 3. The ability of the system to behave consistently in a user-acceptable manner when operating within the environment for which the system was intended. 4. It is a degree to which software running on one platform can easily be converted to run on another platform as well as It can be enhanced by using languages, OS' and tools that are universally available and standardized.	1.0
1287	Which of the following statements is false?	1. Every NFA can be converted to an equivalent DFA 2. Every non-deterministic Turing machine can be converted to an equivalent deterministic Turing machine 3. Every regular language is also a context-free language 4. Every subset of a recursively enumerable set is recursive	4.0
1288	Which of the following statements is NOT valid about operator overloading?	1.Overloaded operator must have at least one operand of its class type. 2.Only existing operators can be overloaded. 3.The overloaded operators follow the syntax rules of the original operator. 4.The arity of the operator can be changed	3.0
1289	Which of the following statements is NOT valid about operator overloading?	1.Overloaded operator must have at least one operand of its class type. 2.Only existing operators can be overloaded. 3.The overloaded operators follow the syntax rules of the original operator. 4.The arity of the operator can be changed	4.0
1290	Which of the following statements is true?	1.An INPUT field of type password provides excellent security 2.An INPUT field of type password provides a masked field but no real security 3.A maximum length can not be set for a password field 4.A password INPUT field can only be included in a FORM that uses the get METHOD	4.0
1291	Which of the following statements is true?	1.Quadraples have some disadvantages over triples notation for an optimizing compiler 2.For optimizing compiler, moving a statement that defines a temporary value requires us to change all references to that statements. It is an overhead for triples notation 3.For optimizing compiler, triples notation has important benefit where statements are often moved around as it incurs no movements or change 4.All the statements are false	2.0
1292	Which of the following statements is/are TRUE for an undirected graph?P:Number of odd degree vertices is even,Q: Sum of degrees of all vertices is even	1.P Only 2.Q Only 3.Both P and Q 4.Neither P nor Q	1.0
1293	Which of the following statements is/are TRUE for an undirected graph?P:Number of odd degree vertices is even,Q: Sum of degrees of all vertices is even	1.P Only 2.Q Only 3.Both P and Q 4.Neither P nor Q	1.0

S.NO.	Questions	Choices	Answers
1294	Which of the following strategies means that the impact of the risk will be reduced?	1. Avoidance strategies 2. Minimization strategies 3. Contingency plans 4. ALL	2.0
1295	Which of the following system calls results in the sending of SYN packets?	1. socket 2. bind 3. listen 4. connect	4.0
1296	Which of the following term is best defined by the statement “The creation of a new codeline from a version in an existing codeline”?	1. Branching 2. Merging 3. Codeline 4. Mainline	1.0
1297	Which of the following term is best defined by the statement: “Derive traceability information to maximize information hiding in the design.”?	1. Underestimated development time 2. Organizational restructuring 3. Requirements changes 4. None	3.0
1298	Which of the following term is best defined by the statement: “The underlying technology on which the system is built is superseded by new technology.”?	1. Technology change 2. Product competition 3. Requirements change 4. None	1.0
1299	Which of the following term is best defined by the statement: “There will be a change of organizational management with different priorities.”?	1. Staff turnover 2. Technology change 3. Management change 4. Product competition	3.0

S.NO.	Questions	Choices	Answers
1300	Which of the following traits need to exist among the members of an agile software team?	1. Competence 2. Decision-making ability 3. 4.0Mutual trust and respect 4. ALL	4.0
1301	Which of the following tree may have smaller elements in its left subtree and larger element in its right subtree	1.B+ Tree 2.AVL Tree 3.Binary tree 4.Binary search Tree	4.0
1302	Which of the following ways below is correct to write a CSS?	1.p {color:red;text-align:center}; 2.p {color:red;text-align:center} 3.p {color:red;text-align:center;} 4.p (color:red;text-align:center;)	3.0
1303	Which of the following would cause quickest access	1. direct access from a magnetic tape 2. direct access from a hard disk 3. direct access from a floppy disk 4. direct access from a cassette tape	2.0
1304	Which of the regular expressions given below represent the following DFA? I) 0*1(1+00*1)* II) 0*1*1+11*0*1 III) (0+1)*1	1. I and II only 2. I and III only 3. II and III only 4. I,II,III	3.0
1305	Which of these contains an executable statement?	1.// var a = 0; // var b = 0; 2./* var a = 0; // var b = 0; */3./* var a = 0; */ var b = 0; 4.// var a = 0; /* var b = 0; */	3.0
1306	Which of these does not belong to the basic principles of good product design ?	1. Adequacy 2. Feasibility 3. Portability 4. Economy	4.0
1307	Which of these framework activities is not normally associated with the user interface design processes?	1. cost estimation 2. 1.0interface construction 3. interface validation 4. user and task analysis	3.0

S.NO.	Questions	Choices	Answers
1308	Which of these is incorrect ?	1. Software engineering belongs to Computer science 2. Software engineering is a part of more general form of System Engineering 3. Computer science belongs to Software engineering 4. Software engineering is concerned with the practicalities of developing and delivering useful software	3.0
1309	Which of these is not an element of an object-oriented analysis model?	1. Behavioral elements 2. Class-based elements 3. Data elements 4. Scenario-based elements	4.0
1310	Which of these sets of HTML5 attributes can be used for form validation?	1.required, pattern, min and max 2.auto, fixed, number 3.number, text, currency 4.input, radio,checkbox	1.0
1311	Which one is not a self complementary code?	1.8 4 -2 -1 2.4 8 1 2 3.4 4 3 -2 4.2 4 2 1	3.0
1312	Which one of the following is currently the most popular data model?	1.Network Model 2.Object Model 3.Notation Model 4.Relational Model	4.0
1313	Which one of the file allocation scheme cannot be adopted for dynamic storage allocation	1. Linked allocation 2. Fixed Indexed allocation 3. Variable Indexed allocation 4. Contiguous allocation	2.0
1314	Which one of the following algorithm is not used in asymmetric-key cryptography?	1. RSA algorithm 2. diffie-hellman algorithm 3. electronic code book algorithm 4. ECC	3.0
1315	Which one of the following allows a user at one site to establish a connection to another site and then pass keystrokes from local host to remote host?	1. HTTP 2. FTP 3. telnet 4. none of the mentioned	3.0
1316	Which one of the following correctly describes the meaning of 'namespace' feature in C++?	1.namespaces provide facilities for organizing the names in a program to avoid name clashes 2.Namespaces refer to space between the names in a program 3.Namespaces refer to the memory space allocated for names used in a program 4.Namespaces refer to the space for names.	1.0

S.NO.	Questions	Choices	Answers
1317	Which one of the following event is not possible in wireless LAN.	1. collision detection 2. Acknowledgement of data frames 3. multi-mode data transmission 4. none of the mentioned	1.0
1318	Which one of the following is a cryptographic protocol used to secure HTTP connection?	1. stream control transmission protocol (SCTP) 2. transport layer security (TSL) 3. explicit congestion notification (ECN) 4. resource reservation protocol	2.0
1319	Which one of the following is a requirement that fits in a developer's module ?	1. Availability 2. Testability 3. Usability 4. Flexibility	2.0
1320	Which one of the following is an internet standard protocol for managing devices on IP network?	1. dynamic host configuration protocol 2. simple network management protocol 3. internet message access protocol 4. media gateway protocol	2.0
1321	Which one of the following is FALSE?	1. A basic block is a sequence of instructions where control enters the sequence at the beginning and exits at the end. 2. Available expression analysis can be used for common subexpression elimination. 3. Live variable analysis can be used for dead code elimination. 4. x = 4 ∗ 5 => x = 20 is an example of common subexpression elimination.	2.0

S.NO.	Questions	Choices	Answers
1322	Which one of the following is FALSE?	1. There is unique minimal DFA for every regular language 2. Every NFA can be converted to an equivalent PDA 3. Complement of every context-free language is recursive 4. Every nondeterministic PDA can be converted to an equivalent deterministic PDA	4.0
1323	Which one of the following is not a step of requirement engineering?	1. Elicitation 2. Design a model 3. Analysis 4. Documentation	2.0
1324	Which one of the following is not a windows file system?	1. FAT 2. NTFS 3. FAT32 4. EXT	4.0
1325	Which one of the following is not an application layer protocol?	1. media gateway protocol 2. dynamic host configuration protocol 3. resource reservation protocol 4. session initiation protocol	3.0
1326	Which one of the following is not correct?	1. application layer protocols are used by both source and destination devices during a communication session 2. application layer protocols implemented on the source and destination host must match 3. both the options 4.	3.0
1327	Which one of the following is not the process of Deadlock Recovery?	1. Killing a process 2. Rollback to the previous state 3. Selecting a Victim 4. Delaying the process	4.0

S.NO.	Questions	Choices	Answers
1328	Which one of the following is not the responsibility of the DBA?	1.provide security 2.develop applications 3.periodically tunes the database 4.restores the system after a failure	2.0
1329	Which one of the following is the recurrence equation for the worst case time complexity of the Quicksort algorithm for sorting n>=2 numbers? In the recurrence equations given in the options below, c is a constant.	1.T(n)=2T(n/2)+cn 2.T(n)=T(n–1)+T(0)+cn 3.T(n)=T(n/2)+cn 4.T(n)=2T(n–2)+cn	1.0
1330	Which one of the following is the very first task executed by a session enabled page?	1.Delete the previous session 2.Start a new session 3.Check whether a valid session exists 4.Handle the session	3.0
1331	Which one of the following is True at any valid state in shift-reduce parsing?	1. Viable prefixes appear only at the bottom of the stack and not inside 2. Viable prefixes appear only at the top of the stack and not inside 3. The stack contains only a set of viable prefixes 4. The stack never contains viable prefixes	3.0
1332	Which one of the following is used as the start frame delimeter in ethernet frame?	1. 10101010 2. 10101011 3. 00000000 4. 11111111	2.0
1333	Which one of the following languages over the alphabet {0,1} is described by the regular expression: (0+1)*0(0+1)*0(0+1)*?	1. The set of all strings containing the substring 00. 2. The set of all strings containing at most two 0's. 3. The set of all strings containing at least two 0's. 4. The set of all strings that begin and end with either 0 or 1.	3.0
1334	Which one of the following models is not suitable for accommodating any change?	1. Build & Fix Model 2. Prototyping Model 3. RAD model 4. Waterfall Model	4.0
1335	Which one of the following modulation scheme is supported by WiMAX?	1. binary phase shift keying modulation 2. quadrature phase shift keying modulation 3. quadrature amplitude modulation 4. all of the mentioned	4.0

S.NO.	Questions	Choices	Answers
1336	Which one of the following protocol delivers/stores mail to reciever server?	1. simple mail transfer protocol 2. post office protocol 3. internet mail access protocol 4. hypertext transfer protocol	1.0
1337	Which one of the following regular expressions over {0, 1} denotes the set of all strings not containing 100 as a substring (a) 0*(11)*0* (b) (0*1010)* (c) 0*1*010 (d) 0*(10)*01*	1. a and b 2. b and c 3. only c 4. only b	14.0
1338	Which one of the following statements if FALSE?	1. Any relation with two attributes is in BCNF 2. A relation in which every key has only one attribute is in 2NF 3. A prime attribute can be transitively dependent on a key in a 3 NF relation. 4. A prime attribute can be transitively dependent on a key in a BCNF relation.	4.0
1339	Which one of the following uses 8B/6T encoding scheme	1.100 Base-T1 2.100 Base-T4 3.100 Base TX 4.100 Base-FX	2.0
1340	Which property is used to obtain browser vendor and version information?	1.modal 2.version 3.browser 4.navigator	4.0
1341	Which protocol is a signalling communication protocol used for controlling multimedia communication sessions?	1. session initiation protocol 2. session modelling protocol 3. session maintenance protocol 4. none of the mentioned	1.0
1342	Which question no longer concerns the modern software engineer?	1. Why does computer hardware cost so much? 2. Why does software take a long time to finish? 3. Why does it cost so much to develop a piece of software? 4. Why can't software errors be removed from products prior to delivery?	1.0
1343	Which searching technique is better, if unsorted array is given as input	1.Radix search 2.Linear search 3.Binary search 4.Indexd sequential search	2.0
1344	Which segments of a seven-segment display would be active to display the decimal digit 2?	1.a, c, d, f, and g 2.a, b, c, d, and g 3.a, b, d, e, and g 4.a, b, c, d, e, and f	3.0

S.NO.	Questions	Choices	Answers
1345	Which SQL functions is used to count the number of rows in a SQL query?	1. Sum 2. Count 3. Max 4. ALL	2.0
1346	Which statement does not require semicolon?	1. goto xyz 2. int x = 20 3. #define MAX 100 4. do {... }while(count<=100)	3.0
1347	Which statement is true:	1.Standard form must consists of minterms 2.All standard form are canonical forms 3.Canonical form can consist of a term with a literal missing 4.All canonical form are standard form	1.0
1348	Which transmission media has the highest transmission speed in a network?	1. coaxial cable 2. twisted pair cable 3. optical fiber 4. electrical cable	3.0
1349	Which of these is a stand alone tag?	1. form 2. frame 3. table 4. anchor	2.0
1350	While inserting the elements 71,65,84,69,67,83 in an empty binary search tree(BST)in the sequence shown, the element in the lowest level is	1.65 2.67 3.83 4.69	2.0
1351	Why 'critical section' is not imposed on file systems instead 'file locks' when more than one process tries to access the file?	1. Time consuming 2. Process entered in to critical section may close the file 3. we cannot satify the three conditions of mutual exclusion, progress and bounded waiting 4. we cannot use semaphore	3.0

S.NO.	Questions	Choices	Answers
1352	WiMAX MAC layer provides an interface between	1. higher transport layers and physical layer 2. application layer and network layer 3. data link layer and network layer 4. none of the mentioned	1.0
1353	WiMAX provides	1. simplex communication 2. half duplex communication 3. full duplex communication 4. none of the mentioned	2.0
1354	WiMAX stands for	1. wireless maximum communication 2. worldwide interoperability for microwave access 3. worldwide international standard for microwave access 4. none of the mentioned	2.0
1355	WiMAX uses the	1. orthogonal frequency division multiplexing 2. time division multiplexing 3. space division multiplexing 4. all of the mentioned	1.0
1356	Wireless transmission can be done via	1. radio waves 2. microwaves 3. infrared 4. all of the mentioned	4.0
1357	Write Through technique is used in which memory for updating the data _____.	1. Virtual memory 2. Main memory 3. Auxiliary memory 4. Cache memory	4.0
1358	You can find the element you want to manipulate by _____ way?	1.getElementById() 2.getElementsByTagName() 3.getElementsByClassName() 4.All of the these	4.0

S.NO.	Questions	Choices	Answers
1359	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	1.O(log n) 2.O(n) 3.O(n^2) 4.O(1)	3.0
1360	You have to sort a list L consisting of a sorted list followed by a few “random” elements.Which of the following sorting methods would be especially suitable for such a task?	1.Bubble sort 2.Selection sort 3.Quick sort 4.Insertion sort	4.0
1361	You need to check the size of a file in PHP function. $size = X(filename); Which function will suitably replace 'X'?	1. filesize 2. size 3. sizeofFile 4. getSize	1.0
1362	‘Aging registers’ are _____.	1. Counters which indicate how long ago their associated pages have been referenced. 2. Registers which keep track of when the program was last accessed 3. Counters to keep track of last accessed instruction 4. Counters to keep track of the latest data structures referred	1.0