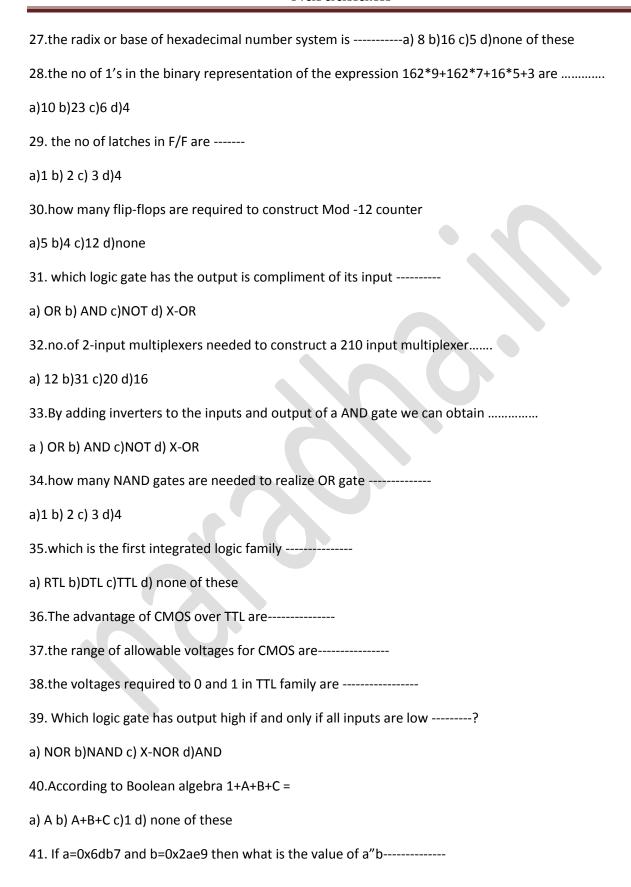
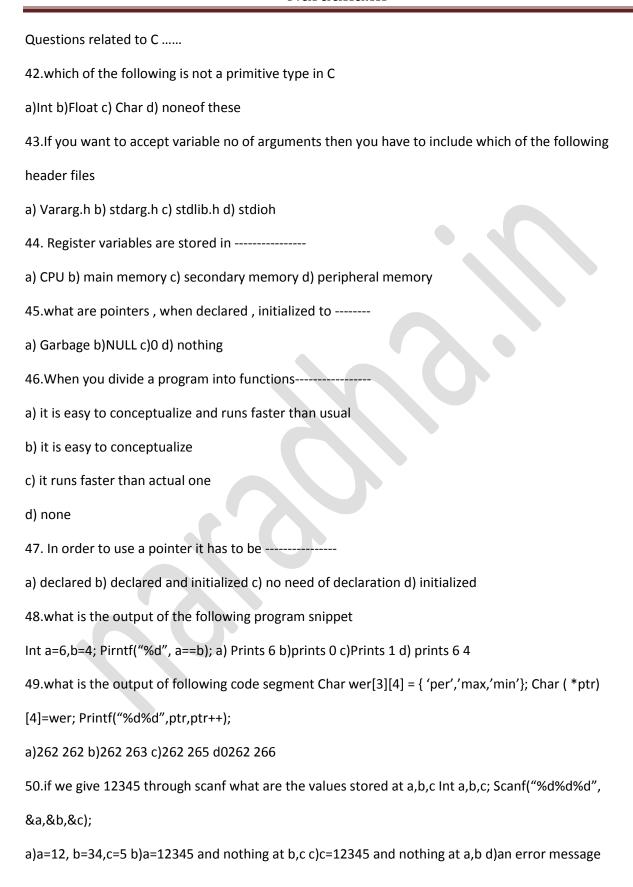
HAL Placement Papers

General Awareness

1.The Kaziranga national park in Assam is famous for
A) one horn rhinoceros B)white tiger C)Impale D)none of these ans a
2.The old name of Delhi was
a) Indrastuptha b)gaya c) pataliputra d) ayodhya
3. All the electioneering campaign has to end
a) before 48 hrs of polling b) before 48 hrs of commencement of results c) before 36 hrs of polling
d) before 72 hrs of polling
4. In 1590, when Portuguese first visited the island Taiwan they named it as
a) Taliban b)mayanmar c) forusa(spelling missing) d) none of these
5. According to Indian mythology Ravana was well skilled in playing
a) sitar b)sarood c)Harmonium d) fluete
6.which of the following is not a beach in Goa no idea about options
7.which hindi (b/w) film was first converted to color
a) Moghal E Azam b) Alam Ara c) Satya Harishchandra d) none
8. Which of the following book is not written by Charles Drekens no idea about
options English related
9.Escape : Abscond :
10.inception : Conclusion :
11. the appropriate meaning of Ocular in the following is
12. Which hand you use to write? A)about b) on c) in d) with
13. He is in the habit(find) new things a) in finding b) of finding c) with finding d)to
finding
14.Phoebe was in the car when her phone is ringing rewrite the sentence without

changing the meaning 15. She was in the kitchen when the telephone was ringing ----- rewrite the sentence 16. All his friends are older -----him a)to b)than c)for d)from 17. you -----be careful when you want not to be blamed a)have to b) has to c) had to d) none of these Section two..... mental ability and Quant 18. what is the next number in the series . 4, -8,16,-32,64, a)192 b) 256 c)-128 d)128 ans c 19. odd men out 3,5,7,11,12,13,17,19 a) 3 b) 7 c)12 d)19 ans c 20.in the following series which is not correctly fit 7,8,18,57,228,1165,6996 a)7 b)57 c)228 d) none of these ans c 21. odd men out 583, 462, 792,427,132 a) 462 b)427 c) 132 d) 792 ans b 22. if x>y and x2-2xy + y2 -9=0, x + y = 15 ...what is the value of x a)3 b)12 c)10 d)9 ans d 23. how many times in day the hands of a clock are straight a) 48 b)44 c)22 d) 24 ans b 24. which of the following numbers is divisible by 3,7,9 and 11 a)2079 b) 1266 c)1165 d) none of these ans a 25.Odd men out sitar, veena, tumpura, sarood 26. Odd men out cricket, boxing, golf, tennis, hockey, football, bowling a) cricket b)bowling c) golf d) boxing Three Questions were given on figures like what is the next figure in sequence Section threeTechnical Related to digital electronics





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51.what is the value stored in S Char s[4]; Scanf("%s", '1234');
a)1234 b) 1 c) garbze d) error
52.what is the output if we give abc through scanf Char x,y,z; Printf("%d",scanf("%c%c%c",
&x,&y,&z));
a) prints 3 b) prints 1 c) error message d) prints nothing
53. A variable declared as "unsigned U" then u is interpreted as
a) unsigned char b) unsigned int c) unsigned float d) the declaration is not possible
54.char c;Printf("%d", c); prints -----
A negative integer b) always positive integer c) garbage d) none
97. What is the output of the following program
Int a=1;
Printf("%d",(a++));
a)1 b)2 c)error message d) none
98.which of the following is incorrect about ++ operator
It is a unary operator b) it can be used in expressions c) left as well as right associative d) can be
overloaded
Questions related to TOC and LP
55.Two languages S and T represented by the regular expressions s=(a+b*) T=(a+b)* then the
relation between them is a)s
56.The language L=\{an bn cn / n=1,2,3,4....\} is
a) not context free language but its complement is I CF
b) a context free language
c) a context free language and accepted by Push Down Automata
d) a context sensitive language
57. Finite State Automation -----device
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a) repeater b) acceptor c) divider d) adder
58.The language L={anbn /n=1,2,3,4} can be generated from
a) S? ab/aSb/€
b) S? aaSbb/ab
c)S? abb/aSb
d) ab/aSb
58.The regular expression (a/b) generates the set
a) {a} b) {b} c{a,b} d) none
59.The regular expression (a/b)* represents
a) all combinations of a or b and same as (a*b*)*
b) all combinations of a or b and not same as (a*b*)*
c) all combinations of a and b , same as (a*b*)*
d) all combinations of a and b not same as (a*b*)*
60.Context sensitive Languages are
a) super set of context free languages and accepted by Push Down Automata
b) super set of context free languages and accepted by non deterministic PDA
c) Accepted by Turing machines only d) none of the above statements are correct
61.Any context free Grammar can be converted into
a) Chomsky Normal Form b) GreiBack Normal form c) CNF and GBNF d) none
62. If a grammar is left-recursive and right-recursive to a non-terminal symbol then the grammar is
a) Ambiguous b) Unambiguous c) the information provided is not sufficient to determine d) none
63.FSA can be used to add two Integers
a)TRUE b) may be TRUE c)FALSE d) may be FALSE
64.context sensitive languages are
a) accepted by push down automata b) accepted by non-deterministic pushdown automata

c) accepted by 2- way linear bounded automata d) a& c
65. The difference between the Moor and Mealay machines is
a) the former one depends on the present state and present inputs
b) the former one depends on the present state only
c) the later depends on the present state and present inputs
d) the later depends on the present input only
66 An FSA can be stated as
A Turing machine with finite tape, unidirectional moment
A Turing machine with finite tape and bidirectional moment
A Turing machine with finite tape , unidirectional and no repetitions
A Turing machine with infinite tape , unidirectional and no repetitions
67.Recursive Languages are
a) super set of all languages
b) type -8 grammar languages
c) accepted by Turing machine
d) we cant say anything about acceptance
68.which of the following statement is wrong about regular expressions
a) there exists a FSM to accept regular expression
b) there exists a N-FSM to accept regular expression
c) there are no ? symbols in regular expression
d) none
69. Regular expression cannot be used in which of the following
a) construction of text editors
b) design of serial circuits
c) design of compilers

- d) finding text patterns
- Questions related to hardware and OS
- 70.the term "memory" is related to
- a) input and output b) storage c) ALU d) none
- 71. which of the following is not a Operating system
- a)AIX b)PROLOG c) WINDOWS d) UNIX
- 72. The CPU or MPU consists of
- a) input and output b) memory c) ALU d) All of the above
- 73. In a multiprogramming system
- a) there are more than one processor
- b) program are executed faster than actual
- c) used in case of large programs only
- d) more programs executed than actual in given time
- 74.the front side bus (FSB) also called as
- a) control bus b) the processor bus c) PCI bus and processor bus d) none
- 75.which language is used Artificial Intelligence SYSTEMS
- a) Java b) c# c) prolog d) Lisp
- 76. what is the capacity of Hollerith card when it is in extended state
- a) 32kb b) 120 kb c) 240 kb d) 20 kb
- 77.how many slots are there for UTM device
- a)1 b) 2 c) 3 d) 4
- 78.which part of the computer has the capability to acces memory and manipulate the memory contents a) input/output b) cpu d) ALU d) none
- 79. the register which is used to locate the address of the operands and restore the contents is
- a) memory address register b) memory data register c) instruction register d) none



d)..... 90.you are hiding the data when you are writing a) a class b) cryptic code c) static function d) ADT 91. In order to declare a member function of one class as a friend of another class we need to use a) the key word Friend b) the key word friend and scope resolution c) only scope resolution d) nothing Question s from Discrete mathematics (only 2) 92. there are 100 nodes in a graph . if two nodes i ,j are said to be adjacent then |i-j|=12 or 8. How many connected components in the above graph a)4 b) 8 c) 12 d) 25 93.in case of a binary tree all parent nodes are having degree 2 and in the child level the child are associated to left . what is the name of the tree a) full binary tree b) complete binary tree c) threaded binary tree d) none DAA 94.what is the worst case complexity of bubble sort a) O(n) b) O(logn) c) O(nlogn) d) O(n2) 95. which of the following sorting technique performs well when the element are in reverse order a) bubble sort b) insertion sort b) mergesort d) heap sort 96.in which type of searching we can search the element in O(1) time averagely

a) linear search b) radix search c) hash based search d) binary search