**[HAL MT Question Patern](http://www.hal.examsavvy.com/2012/10/hal-mt-question-patern.html)**

1. Magnetic tapes are suitable to applications:   
(a) When only a few records are to be accessed  
(b) When most of the records are to be accessed  
(c) Only when all the records are to be processed  
(d) None of the above   
2. A system in which 2 or more cpu’s are interconnnected and share a common Main memory is called:   
(a) Pipeline machine  
(b) Multifunctional system  
(c) Multiprocess  
(d) None of these

Q1.Functional Dependency is:-  
a)a type of constraint  
b)data constraint  
c)varies with time  
d)none of these  
ans:-a

Q2.which of the following is an atomic transaction:?  
a)a transaction in which all the instructions are either committed or aborted  
b)a transaction which consists of only one instruction  
c)a transaction in which all instructions are committed.  
d)none of these  
ans:- a

Q3.Find the sign-and-magnitude of 22.5625  
ans:- 0,1110.1001(check)

Q4. which of the following is/are true about 1's and 2's complements:  
i)In 1's complement form. 0 has two representations  
ii)in 1's complement, the magnitude of lowest number is equal to the magnitude of highest number  
iii)In 2's complement, 0 has two representations

a)i only b)i and ii  
c)iii only d)all of these

Q5.if(base  
{  
cout<<"recovery stable"<  
}  
else  
{  
cout<<"recovery unstable"<  
}  
which of the values will print "recovery stable"?  
a)base=8,height=8  
b)base=3 height=2  
c)base=5 height=3  
d)base=4 height=7  
ans:-d

Q6.which are the major components of a computer?  
a)CPU,monitor,keyboard,RAM,mouse  
b)sound card,modem,printer  
c)CPU,RAM,sound card  
(I don't remember exactly,but the option was a) )

Q7. which of the addressing modes require largest memory access time?  
a)Direct  
b)Indirect  
c)base Index  
d)PC relative  
ans:b

Q8.Network Protocol doesn't consists of which of the following:  
a)character Length  
b)baud length  
c)BIOS  
d)none of these  
ans:c

Q9.A token while passing from one token ring network to another requires the services of:  
a)a simple bridge  
b)a transparent bridge  
c)repeater  
d)router  
ans: b

Q10. some questions were from mathematics like matrix,vectors,differential equations

Q11. vande mataram was derived from the book :  
a)an and math  
b)geetanjali  
c)life of pie  
d)none of these  
ans:a

Q12.which desert-country pair is correctly matched?  
a)Kalahari-Asia  
b)Sahara-Australia  
c)Gobi-Mongolia  
d)Thar-America  
ans:c

Q13.who excavated mohenjo-daro :  
a)W.C.banerjee  
and some more options were there

Q14.calorimeter measures:  
a)quantity of heat generated  
b)heat radiation  
c)temperature  
d)none of these  
ans:b

29. apttitude ques of pipes and cisterns, compound interest, time and distance, cubes, hcf and lcm, multiplication,

34. there were 4 questions like if A\*B represents Ais the son of B, C/D represents Cis the husband of D then how A and D are related.

**[HAL Electrical Previous Year Question Papers](http://www.hal.examsavvy.com/2012/10/hal-electrical-previous-year-question.html)**

Out of 160 questions there were 20 mathematical questions,10 vocabulary, 5 paragraph questions,10 fill in the blanks, 20 apttitude and rest was subject related.

1. partial differntiation of x^3\*y^3/(x+y)^3

2. some points like (0,2,4), (2,5,-1) and (6,2,0) were given and were asked to find whether it is parabola, ecllipse, carboid or cycloid.

3. there were so mant conversion questions like binary to decimal, decimal to binary, decimal to oct, binary mulitiplicationsetc.

4. some laplace formulae related to sine and cosine terms.

5. fouries series of quarter symmetry

6. by appling rouths hurwits criterien we were suppose to find the nuber of roots the equation was something like 2s^4+s^3+4s^2+s i think so

**[HAL Management Trainee Exam Questions](http://www.hal.examsavvy.com/2012/10/hal-management-trainee-exam-questions.html)**

**HAL** exam for the post of Management/Design Trainee on 26-11-2006 for **electrical** branch.  
1) What is the distance between the EHV lines?  
     a)8m     b)11m     c)4m    d)14m   
 2) At present how many HVDC lines are there in india?  
     a)none   b)one      c)two    d)more than two  
 3) Where is the nuclear located in following places?  
      ans: i dont remember the answers, but one of them is thalcher(orissa)  
 4) What is the approximate peak overshoot for a unity feedback system with damping factor 0.6?  
     a)10%   b)5%      c)15%    d)20%  
 5) What is the distance between the EHV lines and earth?  
     a)8m   b)11m       c)18m     d)15m